CITY OF SOUTH LAKE TAHOE, DEPARTMENT OF PUBLIC WORKS BIJOU CREEK CULVERT REPLACEMENT PROJECT

PWC# 2005-04; FORMAL BID NO. PWC 2005-04-BN-1



1048 SKI RUN BLVD. SOUTH LAKE TAHOE, CA 98150 (530) 542-0201

90% DRAFT **NOT FOR CONSTRUCTION**

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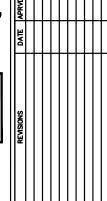
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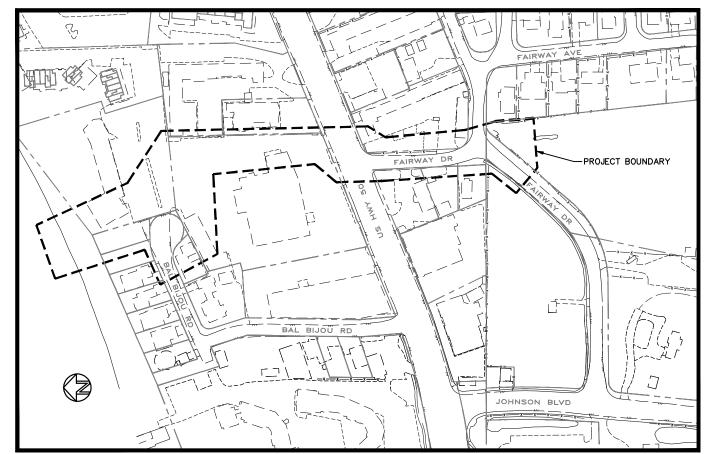
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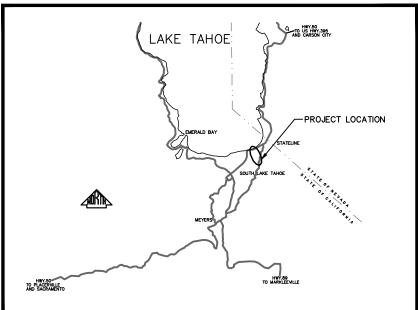
SP/PW/JD - JD/GB/EL 12/17/10 AS SHOWN

CARDNO ENTROX JOB NO.

31141040.00



PROJECT LOCATION MAP



VICINITY MAP

N.T.S

APPROVED BY: STANLEY B. HILL, P.E. CITY ENGINEERING MANAGER CITY OF SOUTH LAKE TAHOE STATE OF CALIFORNIA NO. 53307 RECOD DRAWINGS: ADJUSTMENTS MADE IN THE FIELD DURING CONSTRUCTION, I.E. "AS BUILT" INFORMATION, SHOWN HEREIN WERE MADE UNDER THE DIRECTION OF THE UNDERSIGNED CONTRACTOR AND ARE CORRECT AND COMPLETE TO THE BEST OF HIS/HER KNOWLEDGE AND BELIEF. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR CHANGES TO THESE PLANS NOT AUTHORIZED BY THE ENGINEER. CONTRACTOR'S SIGNATURE DATE

DATE

NOTES:

ENGINEER'S SIGNATURE (STAMP OR SEAL)

CITY OF SOUTH LAKE TAHOE

FUNDING AGENCIES: CALIFORNIA TAHOE CONSERVANCY US FOREST SERVICE

CARDNO ENTRIX, INC. STEPHEN H. PECK, P.E. CIVIL ENGINEER OF RECORD STATE OF CALIFORNIA NO. C65113

DESIGNED BY:

APPROVED BY:

DATE

CONSTRUCTION SHALL CONFORM TO THE CITY OF SOUTH LAKE TAHOE PUBLIC IMPROVEMENT AND ENGINEERING STANDARDS, THE SPECIAL PROVISIONS, AND THESE PROJECT PLANS.

INSTRUCTIONS TO CONTRACTOR:

BEFORE COMMENCING WORK, ALL PLANS AND SCHEDULES MUST BE SUBMITTED, AND APPROVED IN CONFORMANCE WITH THE CITY OF SOUTH LAKE TAHOE CITY CODE, AND THE LATEST EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE CITY 48 HOURS IN ADVANCE OF THE TIME OF COMMENCEMENT AT:

CITY OF SOUTH LAKE TAHOE PUBLIC WORKS DEPARTMENT 530-542-6030

GENERAL NOTES AND CONDITIONS

- 1. UNLESS OTHERWISE DEFINED OR NOTED. "ENGINEER" SHALL MEAN THE CITY ENGINEERING MANAGER OR THEIR DESIGNEE: "ENGINEER OF RECORD" SHALL MEAN CARDNO ENTRIX, INC.; "OWNER" SHALL MEAN THE CITY OF SOUTH LAKE TAHOE.
- 2. THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH ACCEPTED ENGINEERING PROCEDURES AND GUIDELINES, AND ARE IN SUBSTANTIAL COMPLIANCE WITH APPLICABLE STATUTES, CITY ORDINANCES OR STANDARDS. IN THE EVENT OF CONFLICT BETWEEN ANY PORTION OF THESE PLANS AND THE CITY OF SOUTH LAKE TAHOE PUBLIC IMPROVEMENT AND ENGINEERING STANDARDS, THE STANDARDS SHALL APPLY AND THE ENGINEER SHALL BE CONTACTED IMMEDIATELY.
- 3. THE CONTRACTOR SHALL COMPARE ALL PLANS FOR CONFORMANCE AS TO THE LAYOUT OF FEATURES AND DIMENSIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. IF DISCREPANCIES BETWEEN THE PLANS AND THE SPECIFICATIONS OCCUR, THE ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH THE WORK.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING A PRE-CONSTRUCTION JOB SITE CONFERENCE WITH GOVERNING AGENCIES. ALL UTILITY COMPANIES. AND OWNER'S REPRESENTATIVES PRIOR TO COMMENCING THIS MEETING WILL VERIFY SCHEDULES, METHODS, AND MATERIALS TO BE USED IN THE CONSTRUCTION
- THE CONTRACTOR SHALL OBTAIN AND HAVE AVAILABLE COPIES OF APPLICABLE GOVERNING AGENCY STANDARDS AT THE JOB SITE DURING THE RELATED CONSTRUCTION OPERATIONS.
- 6. CONTRACTOR SHALL MAINTAIN IN A SAFE, PLACE ONE RECORD COPY OF ALL DRAWINGS, SPECIFICATIONS, ADDENDA, CHANGE ORDERS, WORK CHANGE DIRECTIVES, FIELD ORDERS, AND WRITTEN INTERPRETATIONS AND CLARIFICATIONS IN GOOD ORDERS AND ANNOTATED TO SHOW CHANGES MADE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL SEQUENCE, COORDINATE, AND CONDUCT DEMOLITION AND CONSTRUCTION OPERATIONS SUCH AS TO MAINTAIN CONTINUOUS PUBLIC SAFETY, ACCESS, DRAINAGE, AND UTILITY SERVICES TO EXISTING FACILITIES REQUIRING THESE SERVICES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST SEVEN (7) DAYS IN ADVANCE OF INTERRUPTION OF ANY OF THESE SERVICES.
- 8. ANY CONSTRUCTION ACTIVITIES CREATING NOISE IN EXCESS TO THE TRPA NOISE STANDARDS MAY BE CONSIDERED EXEMPT BETWEEN THE HOURS OF 8:00 A.M. AND 6:30 P.M. EXCEPT AS DESCRIBED WITHIN NOTE
- 9. CONSTRUCTION NOISE EMANATING FROM ANY CONSTRUCTION ACTIVITIES FOR WHICH A CONSTRUCTION PERMIT OR GRADING PERMIT IS REQUIRED IS PROHIBITED ON SUNDAYS AND FEDERAL HOLIDAYS, AND SHALL ONLY OCCUR BETWEEN THE HOURS OF 8:00 A.M. AND 6:30 P.M. MONDAY THROUGH SATURDAY. SEE CHAPTER 23 TRPA CODE OF ORDINANCES.
- 10. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT THE JOB SITE AT ALL TIMES INCLUDING SAFETY OF PERSONS AND PROPERTY, AND FOR ALL INDEPENDENT ENGINEERING REVIEWS OF OF THESE CONDITIONS. THE ENGINEER'S JOB SITE REVIEW DOES NOT INCLUDE THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.
- 11. THE TYPES, LOCATIONS, SIZES, EXTENT AND/OR DEPTHS OF EXISTING UNDERGROUND IMPROVEMENTS THAT ARE SHOWN, MAY NOT BE EXACT. ENTRIX, INC. AND THE CITY OF SOUTH LAKE, ASSUMES NO RESPONSIBILITY FOR ANY UNDERGROUND FACILITIES OR OTHER BURIED OBJECTS WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING APPROPRIATE UTILITY AGENCIES TO DETERMINE LOCATIONS OF UNDERGROUND FACILITIES PRIOR TO ANY EXCAVATIONS AND FOR THE PROTECTION OF AND REPAIR OF ANY DAMAGE TO THEM. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF THESE UTILITIES AND IMMEDIATELY NOTIFY THE ENGINEER IF THE ACTUAL LOCATION IS SIGNIFICANTLY DIFFERENT FROM THAT SHOWN ON THESE PLANS.
- ACTUAL LOCATION IS SIGNIFICANTLY DIFFERENT FROM THAT SHOWN ON THESE PLANS.

 12. AS PART OF THIS WORK, THE CONTRACTOR IS TO VERY CAREFULLY PROTECT ALL EXISTING IMPROVEMENTS, VEGETATION, TREES AND OTHER FACILITIES WHICH ARE WITHIN THE PROJECT AREA BUT OUTSIDE THE SCOPE OF THIS PROJECT. WHERE THE REMOVAL OF ANY SUCH FEATURES ARE IN QUESTION, THE CONTRACTOR SHALL PROTECT THAT AREA UNTIL A DECISION CAN BE MADE BY THE ENGINEER. WHERE THE POSSIBILITY OF DAMAGE TO ANY TREE OR VEGETATION THAT IS DESIGNATED TO REMAIN ON SITE EXISTS, THE CONTRACTOR SHALL REPORT A TEMPORARY FENCE OR BARRIER TO PROTECT THE TREE OR VEGETATION (SEE DETAILS). IF ANY TREES ARE SCARRED DURING CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY INVESTIGNON TO DETERMINE EXTENT OF DAMAGE AND RECOMMENDED REMEDIAL MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERLETURIAL MEASURES. DAMAGE AND RECOM REMEDIAL MEASURES.
- 13. THE REQUIREMENTS OF ANY PERMITS ISSUED FOR THIS PROJECT BY ANY LOCAL, COUNTY, STATE OR FEDERAL AGENCY SHALL BE STRICTLY OBSERVED BY THE CONTRACTOR.
- 14. NO CONSTRUCTION SHALL BE DONE BETWEEN OCTOBER 15 AND MAY 1 WITHOUT AN APPROVED SEDIMENT AND EROSION CONTROL PLAN TO PREVENT SOIL EROSION AND A GRADING EXCEPTION FROM TRPA, THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD LAHONTAN REGION, AND APPROVAL OF THE ENGINEER, ALL WORK PERFORMED BETWEEN OCTOBER 15 AND MAY 1 MUST BE PERFORMED IN SUCH A MANNER THAT THE PROJECT CAN BE WINTERIZED WITHIN TWENTY—FOUR (24) HOURS.
- 15. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE REVEGETATED PURSUANT TO THE SPECIAL PROVISIONS TO THE STANDARD SPECIFICATIONS.
- 16. IF THERE ARE ANY SOILS THAT, IN THE OPINION OF THE ENGINEER, ARE NOT STABILIZED PRIOR TO OCTOBER 15, THE STE SHALL BE COMPLETELY WINTERIZED. THE WINTERIZATION SHALL INCLUDE (BUT NOT BE LIMITED TO) REPAIR OF SEDIMENT BARRIERS AND FILTER BERMS AS NECESSARY, APPLICATION OF A PINE NEEDLE MULCH TO DISTURBED AREAS TO BE REVEGETATED, APPLICATION OF ASPHALTIC TACKING AGENTS TO AREAS TO BE PAVED AND INSTALLATION OF FILTER INLETS AROUND STORM DRAINAGE INLETS AND PROTECTION OF WATER BODIES INCLUDING SEZ.
- 17. THERE SHALL BE NO GRADING, FILLING, CLEARING OF VEGETATION (WHICH DISTURBS SOIL), OR OTHER DISTURBANCE OF THE SOIL DURING INCLEMENT WEATHER AND FOR THE RESULTING PERIOD OF TIME WHEN THE SITE IS IN A SATURATED, MUDDY OR UNSTABLE CONDITION. CLEARING, EARTH-MOVING, AND EXCAVATION OPERATIONS AND OTHER GRADING ACTIVITIES SHALL CEASE WHEN WIND SPEED EXCEEDS 20 MPH
- 18. SOIL AND CONSTRUCTION MATERIAL SHALL NOT BE TRACKED OFF THE CONSTRUCTION SITE. GRADING OPERATIONS SHALL CEASE IN THE EVENT THAT A DANCER OF VIOLATING THIS CONDITION EXISTS. THE SITE SHALL BE CLEANED UP AND ROAD RIGHT-OF-WAY SWEPT CLEAN WHEN NECESSARY. THE PROJECT SHALL BE TREATED AS NECESSARY TO PREVENT OFF-SITE MIGRATION AND ACCUMULATION OF DIRT, SOIL OR OTHER MATERIALS WHICH CAN SUBSEQUENTLY BE ENTRAINED IN AMBIENT AIR. CONTRACTOR SHALL PROVIDE PERIODIC WATERING TO CONTROL AIRBORNE PARTICLES. TRACKING CONTROL MEASURES SHALL BE IN PLACE AT ALL TIMES AT ALL LOCATIONS OF GRADING.
- 19. DURING CONSTRUCTION, ENVIRONMENTAL PROTECTION DEVICES SUCH AS ADEQUATE EROSION CONTROL DEVICES, DUST CONTROL AND VEGETATION PROTECTION BARRIERS SHALL BE MAINTAINED.
- 20. REHABILITATION AND CLEANUP OF THE SITE FOLLOWING CONSTRUCTION MUST INCLUDE REMOVAL OF ALL CONSTRUCTION WASTE AND DEBRIS.
- 21. NO CLEANING OF EQUIPMENT, INCLUDING CEMENT MIXERS, SHALL BE PERMITTED ANYWHERE WITHIN THE PROJECT AREA EXCEPT AS AUTHORIZED BY THE ENGINEER.
- 22. NO VEHICLES OR HEAVY EQUIPMENT SHALL BE ALLOWED IN ANY RIPARIAN OR WET AREA, EXCEPT AS SPECIFICALLY AUTHORIZED BY THE ENGINEER.
- 23. LOOSE SOIL MOUNDS OR SURFACES SHALL BE PROTECTED FROM WIND OR WATER EROSION BY BEING APPROPRIATELY COVERED WHEN CONSTRUCTION IS NOT IN ACTIVE PROGRESS OR WHEN REQUIRED BY THE
- 24. SEWER SERVICE AND SEWER MAIN HORIZONTAL LOCATIONS AND DEPTHS SHOWN ON THESE PLANS ARE SEMER SERVICE AND SEMER MAIN HUNIZUNIAL LUCATIONS AND DEPTHS SHOWN ON THESE PLANS ARE APPROXIMATE ONLY (SEE NOTE 11). CONTRACTOR SHALL ASSUME THAT EACH PARCEL IS SERVED BY A SEWER SERVICE. EXISTING SEWER SERVICES THAT CONFLICT WITH STORM DRAIN INSTALLATION WILL REQUIRE RELOCATION. CONTRACTOR SHALL RELOCATE SEWER SERVICES PER DETAIL SHOWN ON THE PLANS. ALL SEWER RELATED CONSTRUCTION MATERIALS, METHODS, TESTING AND INSPECTION SHALL CONFORM TO THE REQUIREMENTS OF THE SOUTH TAHOE PUBLIC UTILITY DISTRICT. THE SEWER LATERALS RELOCATED BY THE CONTRACTOR SHALL BE AIR TESTED PURSUANT TO STPUD STANDARDS AND APPROVED BEFORE BACKFILING THE TRENCH.
- 25. CONTRACTOR SHALL NOTIFY SOUTH TAHOE PUBLIC UTILITY DISTRICT IN WRITING 48 HOURS IN ADVANCE OF WORK AFFECTING SEWER LINES. CONTRACTOR SHALL COORDINATE DISRUPTIONS TO SERVICE WITH SOUTH TAHOE PUBLIC UTILITY DISTRICT AND THE AFFECTED PROPERTY OWNER'S AND RESIDENTS.
- 26. WHERE PROPOSED STORMDRAIN PIPE AND EXISTING SEWER PIPE CROSS, AS SHOWN ON PLANS OR AS MARKED BY USA, CONTRACTOR SHALL POTHOLE SEWER LINES TO A MINIMUM DEPTH OF 12" BELOW BOTTOM OF STORMDRAIN PIPE, POTHOLING SHALL BE PERFORMED A MINIMUM OF TWO WORKING DAYS PRIOR TO THE BEGINNING OF STORM DRAIN CONSTRUCTION OR PAVEMENT SAWOUTTING ANYWHERE IN THE PROJECT. IF CONFLICT EXISTS AND IS NOT SHOWN ON PLANS, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY. ANY DAMAGED SEWER MUST BE REPORTED TO THE SOUTH TAHOE PUBLIC UTILITY DISTRICT. SEWER CONSTRUCTION WILL REQUIRE TESTING PER THE SOUTH TAHOE PUBLIC UTILITY DISTRICT STANDARDS.

- 27. WATER SERVICE AND WATER MAIN HORIZONTAL LOCATIONS AND DEPTHS SHOWN ON THESE PLANS ARE WAIER SERVICE AND WAIER MAIN HORZONIAL LOCATIONS AND DEPTHS SHOWN ON THESE PLANS ARE APPROXIMATE ONLY (SEE NOTE 11). EXISTING WATER LINES MAY BE STEEL, IRON OR PVC OR OTHER MATERIAL. IF POLYBUTYLENE WATERLINE IS DISCOVERED CONTRACTOR SHALL NOTIFY ENGINEER. CONTRACTOR SHALL ASSUME THAT EACH PARCEL IS SERVED BY A WATER SERVICE. EXISTING WATER SERVICES AND MAINS THAT CONFLICT WITH STORM DRAIN INSTALLATION SHALL REQUIRE RELOCATION. CONTRACTOR SHALL RELOCATE WATER SERVICES AND MAINS PER DETAILS SHOWN ON THE PLANS. ALL WATER RELATED CONSTRUCTION MATERIALS AND METHODS AND TESTING AND INSPECTION SHALL CONFORM TO THE REQUIREMENTS OF THE SOUTH TAHOE PUBLIC UTILITY DISTRICT AND TITLE 22 OF THE WATER CODE.
- 28. CONTRACTOR SHALL NOTIFY SOUTH TAHOE PUBLIC UTILITY DISTRICT IN WRITING 48 HOURS IN ADVANCE OF WORK AFFECTING WATER LINES. CONTRACTOR SHALL COORDINATE DISRUPTIONS TO SERVICE WITH SOUTH TAHOE PUBLIC UTILITY DISTRICT AND THE AFFECTED PROPERTY OWNERS AND RESIDENTS.
- 29. WHERE PROPOSED STORMDRAIN PIPE AND EXISTING WATER PIPE CROSS, AS SHOWN ON PLANS OR AS MARKED BY USA, CONTRACTOR SHALL POTHOLE WATER LINES TO A MINIMUM DEPTH OF 12" BELOW BOTTOM OF STORMDRAIN PIPE. POTHOLING SHALL BE PERFORMED A MINIMUM OF TWO WORKING DAYS PRIOR TO THE BEGINNING OF STORM DRAIN CONSTRUCTION OR PAVEMENT SAWCUTTING ANYWHERE IN THE PROJECT AREA. IF CONFLICT EXISTS AND IS NOT SHOWN ON PLANS CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY. ANY DAMAGED WATER LINES MUST BE REPORTED TO THE SOUTH TAHOE PUBLIC UTILITY DISTRICT. WATER CONSTRUCTION WILL REQUIRE TESTING PER THE SOUTH TAHOE PUBLIC UTILITY DISTRICT STANDARDS.
- 30. WATER, SEWER AND STORM DRAIN SEPARATIONS SHALL CONFORM TO THE "CRITERIA FOR THE SEPARATION OF WATER MAINS AND SANITARY SEWERS" OF THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES.
- 31. GAS SERVICE AND GAS MAIN HORIZONTAL LOCATIONS AND DEPTHS SHOWN ON THESE PLANS ARE APPROXIMATE ONLY (SEE NOTE 11). CONTRACTOR SHALL ASSUME THAT EACH PARCEL IS SERVED BY A GAS SERVICE. SUISTING GAS SERVICES AND MAINS THAT CONFLICT WITH STORM DRAIN INSTALLATION SHALL REQUIRE RELOCATION. CONTRACTOR SHALL EXPOSE EXISTING PIPE AND PROVIDE ALL TRENCHING AND SHORING AS REQUIRED. THE GAS UTILITY COMPANY WILL CONSTRUCT THE PIPE RELOCATION AND INITIAL BACKFILL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING THIS WORK WITH THE GAS UTILITY COMPANY. CONTRACTOR SHALL CONSTRUCT TRENCH RESURFACING PER THE APPLICABLE DETAIL. ALL GAS RELATED CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT GOVERNING GAS UTILITY.
- 32. WHERE PROPOSED STORMORAIN PIPE AND EXISTING GAS PIPE CROSS, AS SHOWN ON PLANS OR AS MARKED BY USA, CONTRACTOR SHALL POTHOLE GAS LINES TO A MINIMUM DEPTH OF 12" BELOW BOTTOM OF STORMORAIN PIPE. POTHOLING SHALL BE PERFORMED A MINIMUM OF TWO WORKING DAYS PRIOR TO THE BEGINNING OF STORM DRAIN CONSTRUCTION OR PAVEMENT SAWCUTTING ANYWHERE IN THE PROJECT. IF CONFLICT EXISTS AND IS NOT SHOWN ON PLANS CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.
- 33. CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED IN GOOD CONDITION AND IN PROPER TUNE IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS AND NOT ALLOWED TO IDLE FOR LONG PERIODS OF TIME. ALL WHEELED AND TRACK CONSTRUCTION EQUIPMENT SUCH AS BACKHOES, EXCAVATORS, TRUCKS, TRACTORS, COMPACTOR ROLLERS, ETC. SHALL BE STEAM CLEANED TO REMOVE ALL DIRT, WEEDS AND GREASE BEFORE ARRIVAL AT THE PROJECT SITE. IF EQUIPMENT IS TO BE BROUGHT INTO THE TAHOE BASIN, STEAM CLEANING MUST OCCUR OUTSIDE THE TAHOE BASIN.
- 34. LAND DISTURBING ACTIVITIES SHALL BE DONE IN INCREMENTS AS DETERMINED ON THE APPROVED PROJECT SCHEDULE TO MINIMIZE THE AMOUNT OF AREA DISTURBED, AND UNTREATED, AT ANY ONE TIME.
- 35. NO OPEN BURNING OF DEBRIS SHALL OCCUR WITHIN THE PROJECT LIMITS, DURING AND AFTER
- 36. ADEQUATE MUFFLERS AND ENCLOSURES FOR POWERED EQUIPMENT ARE REQUIRED.
- 37. CONTRACTOR SHALL INSTALL DOUBLE 4" YELLOW CENTER LINE REFLECTORIZED TRAFFIC PAINT AT ALL CONTRACTOR SHALL INSTALL DOUBLE YELLOW CENTERLINE PAINT HAS BEEN DISTURBED, DEFACED, DBLITERATED OR WHERE THE EXISTING DOUBLE YELLOW CENTERLINE PAINT HAS BEEN DISTURBED, DEFACED, OBLITERATED OR WHERE THE LOCATION OF THE CENTERLINE HAS SIGNIFICANTLY CHANGED DURING CONSTRUCTION. "STOP" PAINT AND "STOP BAR" PAINT SHALL BE INSTALLED AT ALL LOCATIONS WHERE THE EXISTING "STOP BAR" PAINT HAS BEEN DISTURBED, DEFACED, OBLITERATED OR WHERE THE LOCATION OF THE EXISTING "STOP BAR" PAINT HAS CHANGED DURING CONSTRUCTION. CONTRACTOR SHALL REMOVE THE EXISTING DISTURBED, DEFACED, OBLITERATED "STOP BAR" OR DOUBLE YELLOW CENTERLINE PAIN
- 38. PAYMENT FOR AC PATCHING WILL BE LIMITED TO WHAT IS SHOWN ON THE PLANS UNLESS APPROVAL FOR REMOVAL AND REPLACEMENT OF ADDITIONAL PAVEMENT IS APPROVED BY THE ENGINEER.
- 39. ANY CONSTRUCTION OCCURRING WITHIN 36" OF THE EXISTING SANITARY SEWER FORCE MAIN SHALL BE EXCAVATED BY HAND. NO MACHINE EXCAVATION WILL BE ALLOWED WITHIN 36" OF THE EXISTING SANITARY
- 40. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER ON SUITABLE BEDDING AND BACKFILL MATERIAL. IF MATERIAL IS DEEMED UNSUITABLE BY THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-HAUL OF UNSUITABLE MATERIAL AND THE IMPORT OF SUITABLE BEDDING AND BACKFILL MATERIAL.
- 41. INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES ARE THE RESPONSIBILITY OF THE CONTRACTOR THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF SIGNIFICANT EROSION AND SILTATION FROM ENTERING THE STORM DRAIN SYSTEM, NATURAL DRAINAGE COURSES, AND/OR INTRUDING UPON ADJACENT ROADWAYS AND PROPERTIES. EROSION CONTROL MEASURES ON THESE PLANS ARE INTENDED AS A GUIDE. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS DETERMINED IN THE FIELD AND AS APPROVED BY THE ENGINEER. THIS RESPONSIBILITY SHALL APPLY THROUGHOUT THE COURSE OF CONSTRUCTION AND UNTIL ALL DISTURBED AREAS HAVE BECOME STABILIZED AND SHALL NOT BE LIMITED TO WET WEATHER PERIODS. THE CONTRACTOR IS RESPONSIBLE FOR SWPPP UPDATES.
- 42. IF ANY UNKNOWN SUBSURFACE STRUCTURE OR CONTAMINATION IS DISCOVERED DURING CONSTRUCTION, IT SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE
- 43. ALL EXCAVATED MATERIAL FROM THE SITE NEEDS TO BE INSPECTED BY THE ENGINEER PRIOR TO OFF HAUL. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO EXCAVATION FOR INSPECTION.
- 44. ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF OUTSIDE THE TAHOE BASIN OR AT A SITE APPROVED BY
- 45. ONLY EQUIPMENT OF A SIZE AND TYPE THAT, UNDER PREVAILING SITE CONDITIONS, AND CONSIDERING THE NATURE OF THE WORK TO BE PERFORMED AND WILL DO THE LEAST AMOUNT OF DAMAGE, SHALL BE USED.
- 46. ASPHALT PAVEMENT AND BASE THICKNESS ARE SHOWN ON THE PLANS. IN PLACE COMPACTED THICKNESS THEREOF SHALL BE WITHIN THE FOLLOWING TOLERANCES:
- AGGREGATE BASE COURSE: \$" PLUS OR MINUS
 ASPHALT SURFACE: \$" PLUS OR MINUS
- 47. ALL ASPHALT CONCRETE SURFACES SHALL BE SAWCUT THREE FEET MINIMUM INSIDE THE EDGE OF PAVEMENT TO A NEAT, STRAIGHT LINE AND REMOVED. THE EXPOSED EDGE SHALL BE SEALED WITH EMULSION PRIOR TO PAVING. THE EXPOSED BASE MATERIALS SHALL BE GRADED AND RECOMPACTED PRIOR TO PAVING.
- 48. MANUFACTURER'S MATERIAL AND WEIGHT TICKETS SHALL BE FURNISHED TO THE ENGINEER.

UTILITIES

CARLE TELEVISION CHARTER COMMUNICATIONS (775) 588-1077 SOUTHWEST GAS CO., (530) 543-3225 NATURAL GAS ELECTRIC NV ENERGY, (530) 541-2040 SEWER & WATER SOUTH TAHOE PUD, (530) 544-6474 TELEPHONE AT&T. (916) 453-7316 STORM DRAIN CITY OF SOUTH LAKE TAHOE, DPW (530) 542-6030 CALTRANS, (530) 582-8133

90% DRAFT **NOT FOR** CONSTRUCTION



SOUTH LAKE TAHOE, CA 98150 (530) 542-0201

LEGEND CHIEFECENES THIS LECENIS

EX	ISTING	PRO	POSED		
	PROPERTY BOUNDARY		MAJOR CONTOUR		
	EDGE OF PAVEMENT		MINOR CONTOUR		
	FENCELINE		FLOWLINE		
	BUILDING		PROPOSED SEWER LINE RELOCATION		
	EXISTING CONCRETE		PROPOSED WATER LINE RELOCATION		
$-\cdot$ $-\cdot$ $-$	EXISTING SEWER LINES		STORM DRAIN PIPE		
—· —· —	EXISTING WATER LINES		STORM BRAIN THE		
	EXISTING GAS LINES	*********	DOUBLE BOX CULVERT		
—. —. —	EXISTING ELEC. LINES				
<u> </u>	EXISTING TELE. LINES		SANITARY SEWER PIPE		
—· — · —	EXISTING STORM DRAIN	0	STORM DRAIN MANHOLE		
## - #*	EXISTING UTILITES (VARIES)		SANITARY SEWER MANHOLE		
	EXISTING LANE STRIPING	0	SANITARY SEWER MARRIOLE		
	MAJOR CONTOUR	•	BOX CULVERT DRAIN INLET		
	MINOR CONTOUR	•	BOX CULVERT MANHOLE		
			BOX CULVERT HEADWALL		
			RIP-RAP		

ABBREVIATIONS

DETAIL NUMBER

AC AHW APN	ASPHALT CONCRETE AVERAGE HIGH WATER ASSESSOR'S PARCEL NUMBER	G GB HORIZ	GAS GRADE BREAK HORIZONTAL
APPROX	APPROXIMATE	INST	INSTALL
BLDR	BOULDER	LF	LINEAR FEET
BLVD	BOULEVARD	ī	LEFT
BMP	BEST MANAGEMENT PRACTICE	MIN	MINIMUM
CA	CALIFORNIA	MISC	MISCELLANEOUS
CALC'S	CALCULATIONS	N	NORTH
CF CFS	CUBIC FEET OR CURB FACE	NTS	NOT TO SCALE
	CUBIC FEET PER SECOND CENTERLINE	oc	ON CENTER
Ç CLF	CONSTRUCTION LIMIT FENCE	P PCC	PINE POINT OF COMPOUND CURVATURE
CLF	CLEAR	PL	PROPERTY LINE
CMP	CORRUGATED METAL PIPE	PP	POWER/UTILITY POLE
CO.	COUNTY	PRC	POINT OF REVERSE CURVATURE
CONC	CONCRETE	PROP	PROPOSED
CONST	CONSTRUCT	PUE	PUBLIC UTILITY EASEMENT
CP	CONTROL POINT	RD	ROAD
CSLT	CITY OF SOUTH LAKE TAHOE	REF	REFERENCE
СТ	CALTRANS OR COURT	ROW	RIGHT-OF-WAY
стс	CALIFORNIA TAHOE CONSERVANCY	R	RIGHT
CY	CUBIC YARD	S	SOUTH OR SLOPE
DET	DETAIL	SD	STORM DRAIN
DI	DRAINAGE INLET	SEZ	STREAM ENVIRONMENT ZONE
DIAM OR Ø	DUCTILE IRON PIPE	SF SHT	SQUARE FEET SHEET
DISS	DISSIPATOR	SS	
DR	DRIVE	ST	SANITARY SEWER SEDIMENT TRAP OR STREET
D/W	DRIVEWAY	STA	STATION
Ĕ,	EAST	STPUD	SOUTH TAHOE PUBLIC UTILITY DISTRICT
ĒA	EACH	TN OD	TON
EC	EROSION CONTROL	TOB	TOP OF BANK
EG	EXISTING GRADE	TRPA	TAHOE REGIONAL PLANNING AGENCY
ELEV	ELEVATION	TYP	TYPICAL
ELEC	ELECTRIC	USFS	UNITED STATES FOREST SERVICE
EP	EDGE OF PAVEMENT	VERT	VERTICAL
EX	EXISTING	W_	WEST OR WATER
F_	FIR	WFB	WATER FILLED BARRIER
FES	FLARED END SECTION	W/	WITH
FF	FILTER FENCE	w/o	WITHOUT
FG FH	FINISHED GRADE FIRE HYDRANT		
FL	FLOWLINE		
FS	FINISH SURFACE		
, 3	THIST SURFACE		

CAUTION! ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NEED TO BE POTHOLED PRIOR TO CONSTRUCTION.

CALL BEFORE YOU DIG '

140-07-00

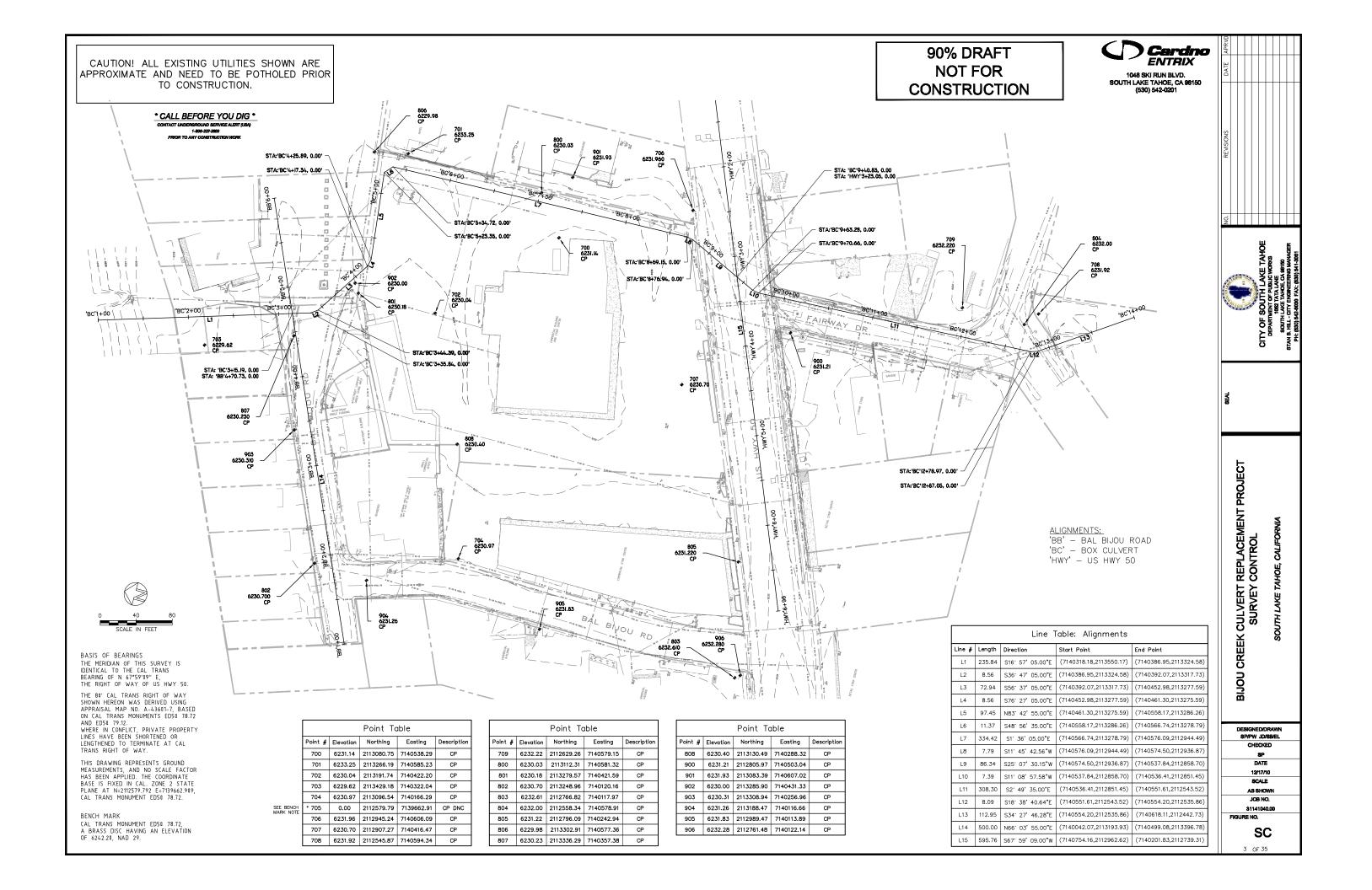
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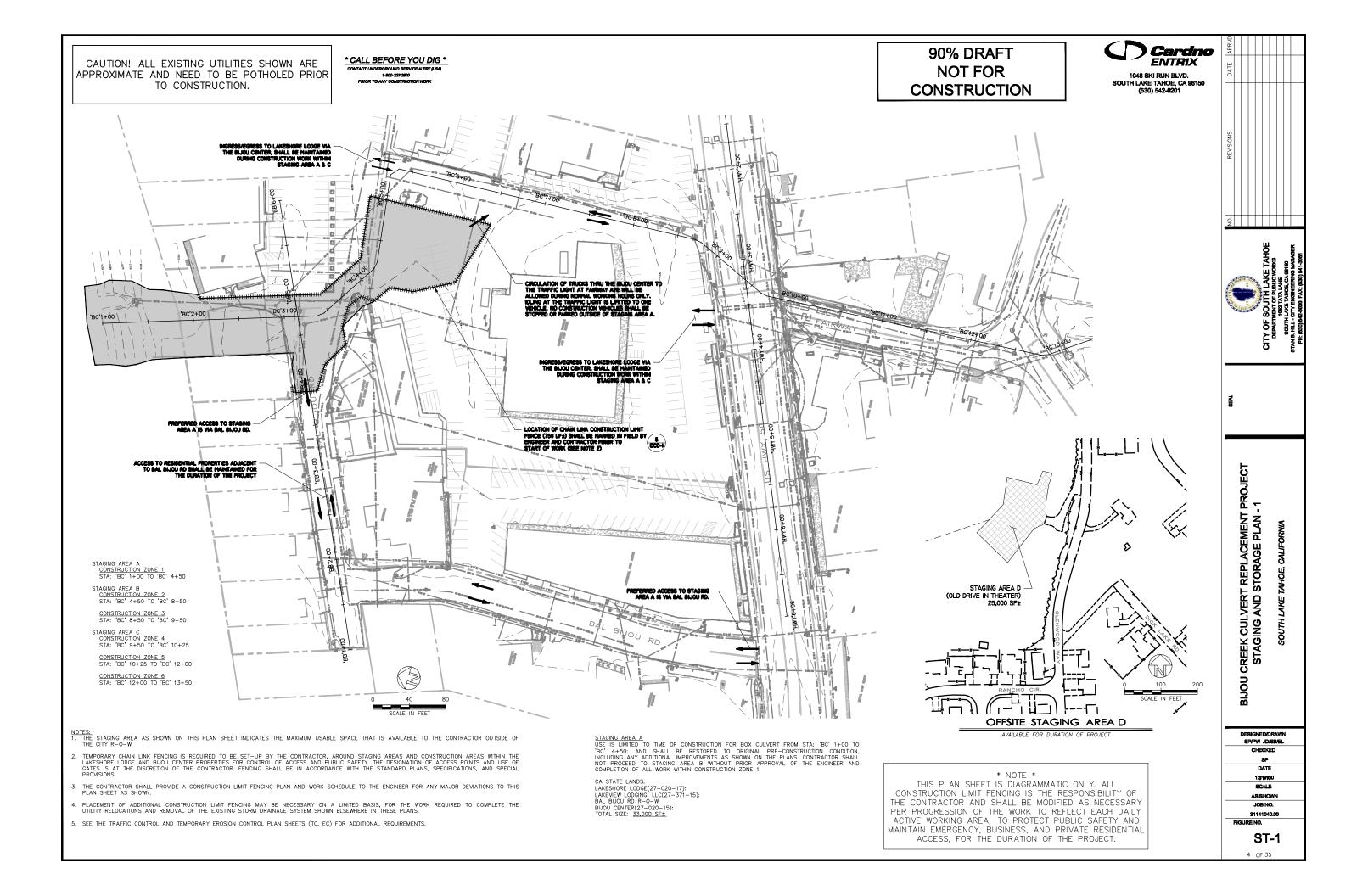
CULVERT REPLACE GENERAL NOTES

DEBIGNED / DRAW PIPW AID - JOH

12/17/10 AS SHOWN

21141040.00 PIGLINE NO.





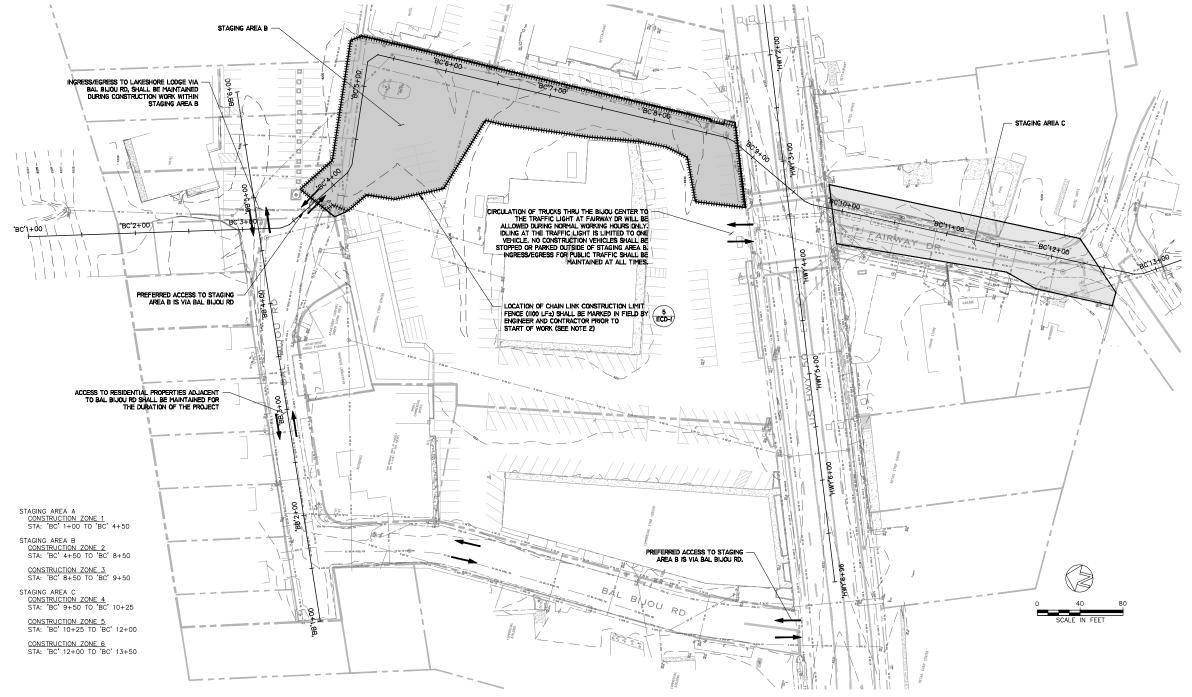
* CALL BEFORE YOU DIG *

90% DRAFT **NOT FOR** CONSTRUCTION



1048 SKI RUN BLVD. SOUTH LAKE TAHOE, CA 96150 (530) 542-0201





NOTES:

1. THE STAGING AREA AS SHOWN ON THIS PLAN SHEET INDICATES THE MAXIMUM USABLE SPACE THAT IS AVAILABLE TO THE CONTRACTOR OUTSIDE OF THE CITY R-O-W.

- 2. TEMPORARY CHAIN LINK FENCING IS REQUIRED TO BE SET-UP BY THE CONTRACTOR, AROUND STAGING AREAS AND CONSTRUCTION AREAS WITHIN THE LAKESHORE LODGE AND BIJOU CENTER PROPERTIES FOR CONTROL OF ACCESS AND PUBLIC SAFETY. THE DESIGNATION OF ACCESS POINTS AND USE OF GATES IS AT THE DISCRETION OF THE CONTRACTOR. FENCING SHALL BE IN ACCORDANCE WITH THE STANDARD PLANS, SPECIFICATIONS, AND SPECIAL PROVISIONS.
- 3. THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION LIMIT FENCING PLAN AND WORK SCHEDULE TO THE ENGINEER FOR ANY MAJOR DEVIATIONS TO THIS PLAN SHEET AS SHOWN.
- 4. PLACEMENT OF ADDITIONAL CONSTRUCTION LIMIT FENCING MAY BE NECESSARY ON A LIMITED BASIS, FOR THE WORK REQUIRED TO COMPLETE THE UTILITY RELOCATIONS AND REMOVAL OF THE EXISTING STORM DRAINAGE SYSTEM SHOWN ELSEWHERE IN THESE PLANS.
- 5. SEE THE TRAFFIC CONTROL AND TEMPORARY EROSION CONTROL PLAN SHEETS (TC, EC) FOR ADDITIONAL REQUIREMENTS.

STAGING AREA B
USE IS LIMITED TO TIME OF CONSTRUCTION FOR BOX CULVERT FROM STA: 'BC' 4+50
TO 'BC' 9+50; AND SHALL BE RESTORED TO ORIGINAL PRE-CONSTRUCTION CONDITION,
INCLUDING ANY ADDITIONAL IMPROVEMENTS AS SHOWN ON THE PLANS. CONTRACTOR
SHALL NOT PROCEED TO STAGING AREA C WITHOUT PRIOR APPROVAL OF THE ENGINEER
AND COMPLETION OF ALL WORK WITHIN CONSTRUCTION ZONE 2 & 3.

LAKESHORE LODGE(27-020-17): BIJOU CENTER(27-020-15): TOTAL SIZE: 30,238 SF±

STAGING AREA C USE IS LIMITED TO TIME OF CONSTRUCTION FOR BOX CULVERT FROM STA: 'BC' 9+50 TO 'BC' 13+50; AND SHALL BE RESTORED TO ORIGINAL PRE-CONSTRUCTION CONDITION, INCLUDING ANY ADDITIONAL IMPROVEMENTS AS SHOWN ON THE PLANS.

BEVERLY LODGE(27-350-24): FAIRWAY DR. R-O-W: TOTAL SIZE: 12,947 SF±

* NOTE *

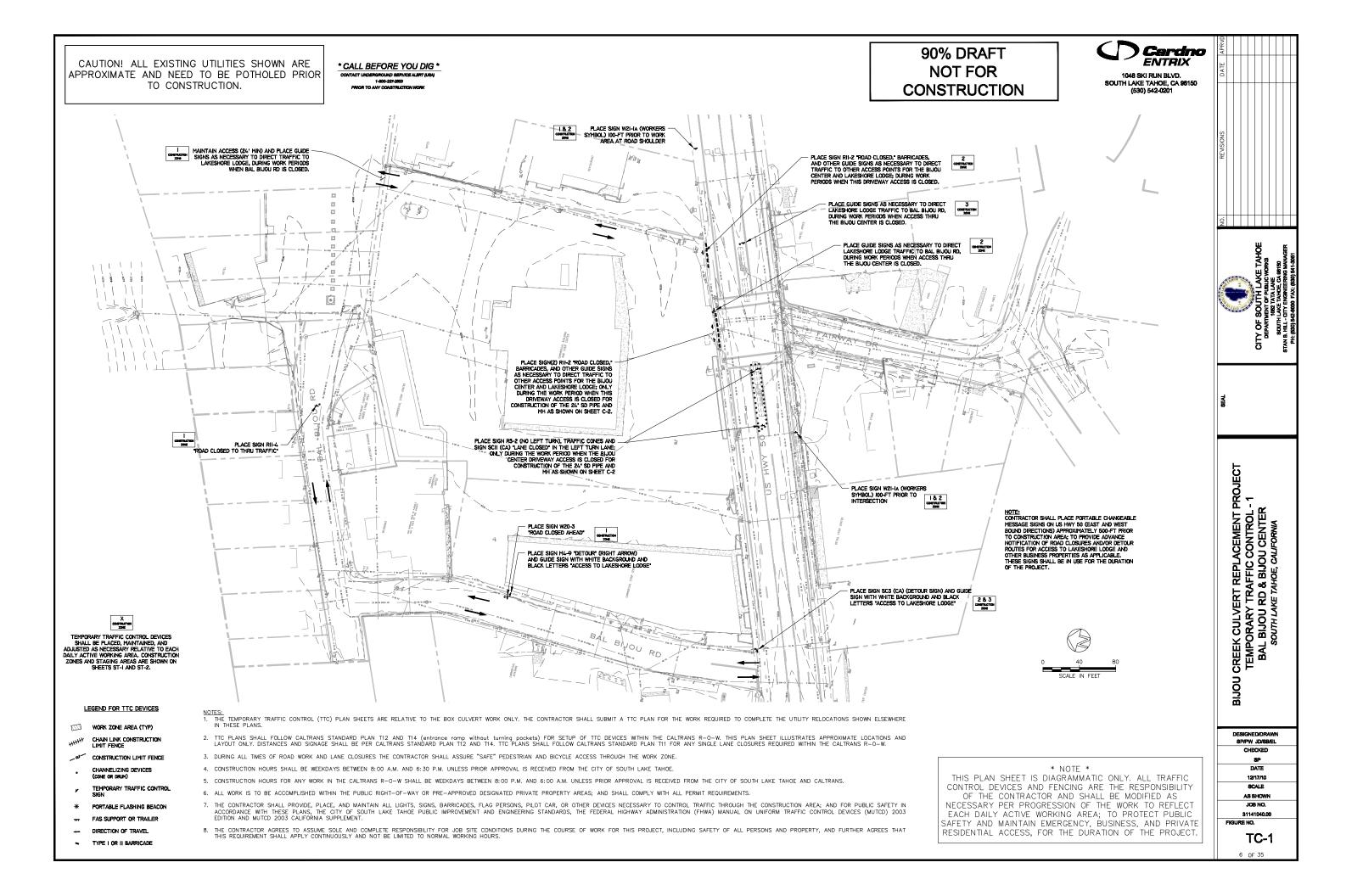
THIS PLAN SHEET IS DIAGRAMMATIC ONLY. ALL CONSTRUCTION LIMIT FENCING IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MODIFIED AS NECESSARY PER PROGRESSION OF THE WORK TO REFLECT EACH DAILY ACTIVE WORKING AREA; TO PROTECT PUBLIC SAFETY AND MAINTAIN EMERGENCY, BUSINESS, AND PRIVATE RESIDENTIAL ACCESS, FOR THE DURATION OF THE PROJECT. CREEK CULVERT REPLACEMENT PROJECT STAGING AND STORAGE PLAN - 2 BIJOU

CALI

DESIGNED/DRAWN 8P/PW JD/8B/EL CHECKED DATE 12/17/10 SCALE AS SHOWN JOB NO.

31141040.00 FIGURE NO.

ST-2



* CALL BEFORE YOU DIG * 1-800-227-2600

90% DRAFT **NOT FOR** CONSTRUCTION

FOR LEFT TURN RESTRICTION (WESTBOUND US 50 AT FAIRWAY DR), THE CONTRACTOR SHALL PLACE ALL TEMPORARY DETOUR AND GUIDE SIGNS AS NECESSARY TO DIRECT TRAFFIC TO ALTERNATE ROUTE VIA JOHNSON BLYD AND FAIRWAY DR. (SEE SHEET TC-4.)

** FOR ROAD CLOSURE (FAIRWAY DR), THE CONTRACTOR SHALL PLACE ALL TEMPORARY DETOUR AND GUIDE SIGNS AS NECESSARY TO DIRECT TRAFFIC FOR ALTERNATE ROUTE TO US 50; VIA JOHNSON BLVD. (SEE SHEET TC-4)

ACCESS IF DWY. ENTRANCE AT US HWY 50 IS CLOSED

PLACE SIGN RII-12 TROAD CLOSED AND TYPE II BARRICADES

PLACE SIGN RII-IZ "ROAD CLOSED"

PLACE SIGN C20 (CA) 'RIGHT LANE CLOSED AHEAD'
AT 100-FT PRIOR TO START OF TAPER AND GUIDE SIGNS
TO INDICATE BUSINESS ACCESS FOR BIJOU CENTER AND
LAKESHORE LOOGE IS VIA BAL BIJOU RD.
MOTE AT SHOULDER OF ROADWAY PLACE SIGN WZO-I
ROAD WORK AHEAD' AND A PORTABLE FLASHING BEACON
AT 200-FT PRIOR TO START OF TAPER

PLACE TYPE II BARRICADES AND TRAFFIC CONES (TYP)



1048 SKI RUN BLVD. SOUTH LAKE TAHOE, CA 96150 (530) 542-0201

LEGEND FOR TTC DEVICES

WORK ZONE AREA (TYP)

CHANNELIZING DEVICES (CONE OR DRUM)

TEMPORARY TRAFFIC CONTROL

PORTABLE FLASHING BEACON

FAS SUPPORT OR TRAILER DIRECTION OF TRAVEL

TYPE I OR II BARRICADE



CITY OF DEPART

CREEK CULVERT REPLACEMENT
TEMPORARY TRAFFIC CONTROL
US HWY 50
SOUTH LAKE TAHOE, CALIFORNIA

SP/PW JD/SB/EL CHECKED DATE 12/17/10

SCALE

BIJOU

AS SHOWN JOB NO. 31141040.00

FIGURE NO. TC-2

PLACE SIGN C20 (CA) "LEFT LANE CLOSED AHEAD" AT 100-FT PRIOR TO START OF TAPER MOTE: AT SHOULDER OF ROADWAY PLACE SIGN WZO-I TROAD WORK AHEAD" AND A PORTABLE FLASHING BEACON AT 200-FT PRIOR TO START OF TAPER PLACE SIGN G20-2 "END ROAD WORK" PLACE SIGN W4-2R (LANE ENDS SYMBOL)
NOTE: AT SHOULDER OF ROADWAY PLACE
SIGN W2O-I "ROAD WORK AHEAD" AND A
PORTABLE FLASHING BEACON, AND SIGN
C20 (CA) " RIGHT LANE CLOSED AHEAD" AT
200-FT AND 100-FT RESPECTIVELY, PRIOR
TO START OF TAPER PLACE SIGN W4-2L (LANE ENDS SYMBOL) PLACE SIGN G20-2 "END ROAD WORK" - PLACE FLASHING ARROW SIGN PLACE SIGN WI-4L (CURVE SIGN) AND * FOR THE LEFT TURN RESTRICTION (WESTBOUND US 50 AT FAIRWAY DR). THE CONTRACTOR SHALL FLACE ALL TEMPORARY DETOUR AND GUIDE SIGNS AS NECESSARY TO DIRECT TRAFFIC TO ALTERNATE ROUTE, VIA JOHNSON BLVD, AND FAIRWAY DR. (SEE SHEET TC-4) PLACE FLASHING ARROW SIGN TRAFFIC CONES (TYP) PLACE TYPE II PLACE SIGN WI-4R (CURVE SIGN) AT SHOULDER OF ROADWAY PLACE
SIGN W20-I 'ROAD WORK AHEAD'
AND SIGN WITH (TURN SIGN) AT
200-FT AND 100-FT RESPECTIVELY,
PRIOR TO INTERSECTION BC'8+00 PLACE TYPE II BARRICADES (TYP) PLACE TYPE II BARRICADES (TYP) PLACE SIGN WI-2R (CURVE SIGN) • PLACE SIGN R3-2 PLACE SIGN R3-2 (TURN PROHIBITION) (TURN PROHIBITION) AND SIGN SC3 (CA) (DETOUR SIGN) PLACE SIGN WI-4R (CURVE SIGN) PLACE SIGN R3-2 (TURN PROHIBITION) PLACE SIGN RI-2 (TURN PROHIBITION) AND SIGN \$C3 (CA) (YIELD SIGN) PLACE FLASHING ARROW SIGN (FAS) - PLACE SIGN W4-2L PLACE SIGN C20 (CA) ' LEFT PLACE SIGN G20-2 "END ROAD WORK" PLACE SIGN W20-I "ROAD WORK AHEAD" AND A PORTABLE FLASHING BEACON AT 200-FT PRIOR TO START OF TAPER BYOU RD

WESTBOUND US HWY 50 (TTC)

FOR WORK IN CONSTRUCTION ZONE 3

EASTBOUND US HWY 50 (TTC) FOR WORK IN CONSTRUCTION ZONE 4

PLACE SIGN R3-2

PLACE FLASHING

PLACE SIGN R3-2 (TURN PROHIBITION)

PLACE SIGN R3-2 (TURN PROHIBITION)

PLACE SIGN W4-2R (LANE ENDS SYMBOL)

PLACE SIGN WI-4L (CURVE SIGN) AND WI3-I (15 MPH)

NOTES:

1. THE TEMPORARY TRAFFIC CONTROL (TTC) PLAN SHEETS ARE RELATIVE TO THE BOX CULVERT WORK ONLY. THE CONTRACTOR SHALL SUBMIT A TTC PLAN FOR THE WORK REQUIRED TO COMPLETE THE UTILITY RELOCATIONS SHOWN ELSEWHERE IN THESE PLANS.

- 2. TTC PLANS SHALL FOLLOW CALTRANS STANDARD PLAN T12 AND T14 (entrance ramp without turning pockets) FOR SETUP OF TITO DEVICES WITHIN THE CALTRANS RO-W. THIS PLAN SHEET ILLUSTRATES APPROXIMATE LOCATIONS AND LAYOUT ONLY. DISTANCES AND SIGNAGE SHALL BE PER CALTRANS STANDARD PLAN TIZ AND TI4. TITO PLANS SHALL FOLLOW CALTRANS STANDARD PLAN TI1 FOR ANY SINGLE LANE CLOSURES REQUIRED WITHIN THE CALTRANS RO-W.
- 3. DURING ALL TIMES OF ROAD WORK AND LANE CLOSURES THE CONTRACTOR SHALL ASSURE "SAFE" PEDESTRIAN AND BICYCLE ACCESS THROUGH THE WORK ZONE
- CONSTRUCTION HOURS SHALL BE WEEKDAYS BETWEEN 8:00 A.M. AND 6:30 P.M. UNLESS PRIOR APPROVAL IS RECEIVED FROM THE CITY OF SOUTH LAKE TAHOE.
- 5. CONSTRUCTION HOURS FOR ANY WORK IN THE CALTRANS R-O-W SHALL BE WEEKDAYS BETWEEN 8:00 P.M. AND 6:00 A.M. UNLESS PRIOR APPROVAL IS RECEIVED FROM THE CITY OF SOUTH LAKE TAHOE AND CALTRANS.
- 6. ALL WORK IS TO BE ACCOMPLISHED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRE-APPROVED DESIGNATED PRIVATE PROPERTY AREAS; AND SHALL COMPLY WITH ALL PERMIT REQUIREMENTS.
- 7. THE CONTRACTOR SHALL PROVIDE, PLACE, AND MAINTAIN ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, PILOT CAR, OR OTHER DEVICES NECESSARY TO CONTROL TRAFFIC THROUGH THE CONSTRUCTION AREA; AND FOR PUBLIC SAFETY IN ACCORDANCE WITH THESE PLANS, THE CITY OF SOUTH LAKE TAHOE PUBLIC IMPROVEMENT AND ENGINEERING STANDARDS, THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2003 EDITION AND MUTCD 2003 CALIFORNIA SUPPLEMENT.
- 8. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF WORK FOR THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND FURTHER AGREES THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

* NOTF *

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90% DRAFT **NOT FOR** CONSTRUCTION



1048 SKI RUN BLVD. SOUTH LAKE TAHOE, CA 96150 (530) 542-0201



CITY OF DEPART

CREEK CULVERT REPLACEMENT I TEMPORARY TRAFFIC CONTROL FAIRWAY AVE SOUTH LAKE TAHOE, CALIFORNIA

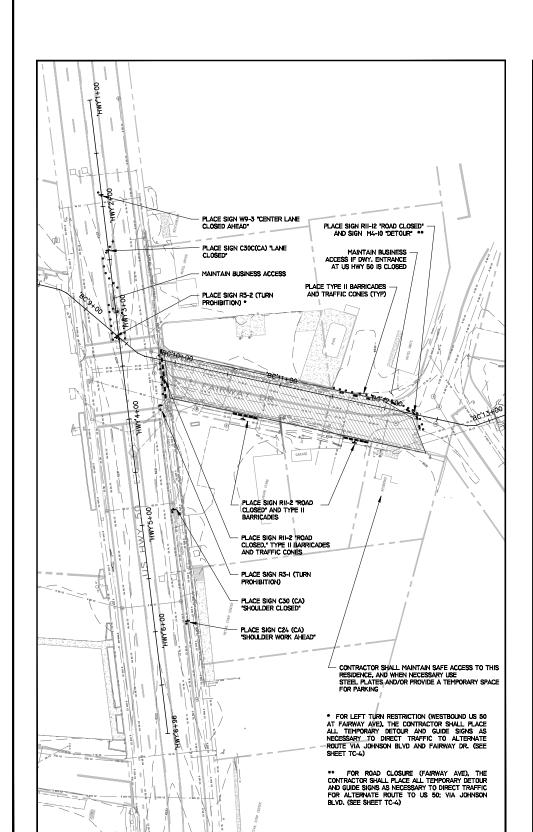
SP/PW JD/SB/EL CHECKED

BIJOU

DATE 12/17/10 SCALE AS SHOWN JOB NO.

31141040.00 FIGURE NO.

TC-3



FAIRWAY DR (TTC) 1

FOR WORK IN CONSTRUCTION ZONE 5

PLACE SIGN RII-4 TROAD CLOSED TO THRU TRAFFIC,* TYPE II BARRICADES AND TRAFFIC CONES NOTE: AT SHOULDER OF ROADWAY PLACE SIGN W20-3 TROAD CLOSED AHEAD* 200-FT PRIOR TO ROAD CLOSURE ON EACH STREET (FAWN, GLENWOOD, AND FAIRWAY) TO PLACE DETOUR AND GUIDE SIGNS AS NECESSARY TO DIRECT TRAFFIC TO HERBERT AVE AND US HMY 50. PLACE SIGN W9-3 "CENTER LANE CLOSED AHEAD" PLACE SIGN C30C(CA) "LANE CLOSED" MAINTAIN BUSINESS ACCESS CLOSED" AND TYPE II PLACE SIGN RII-2 TROAD CLOSED," TYPE II BARRICADES AND TRAFFIC CONES PLACE SIGN R3-I (TURN PROHIBITION) CONTRACTOR SHALL MAINTAIN SAFE ACCESS TO THIS RESIDENCE, AND WHEN NECESSARY USE STEEL PLATES AND/OR PROVIDE A TEMPORARY SPACE FOR PARKING PLACE SIGN RII-2 'ROAD CLOSED,' TYPE II BARRICADES, AND TRAFFIC CONES
MOTE: AT SHOULDER OF ROADWAY PLACE SIGN
W20-3 'ROAD CLOSED ANEAD' 200-PLT PRIOR TO
ROAD CLOSURE: AT INTERSECTION OF FAIRWAY DR
AND JOHNSON BLUD PLACE TRAFFIC CONES AND
SIGN RII-3a. 'ROAD CLOSED AHEAD, LOCAL TRAFFIC
ONLY.' ALSO PLACE DEFOUR AND GLOSE SIGNS AS
NECESSARY TO DIRECT TRAFFIC TO
WAND SIGN BLOSE TO AND GLOSE SIGNS AS
NECESSARY TO DIRECT TRAFFIC TO US HWY 50. (SEE SHEET TC-4)

> FAIRWAY DR (TTC) 2 FOR WORK IN CONSTRUCTION ZONE 6

LEGEND FOR TTC DEVICES

WORK ZONE AREA (TYP) CHAIN LINK CONSTRUCTION LIMIT FENCE CONSTRUCTION LIMIT FENCE

> CHANNELIZING DEVICES TEMPORARY TRAFFIC CONTROL

PORTABLE FLASHING BEACON

FAS SUPPORT OR TRAILER DIRECTION OF TRAVEL

TYPE I OR II BARRICADE

- NOTES:

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- 2. TTC PLANS SHALL FOLLOW CALTRANS STANDARD PLAN T12 AND T14 (entronce ramp without turning pockets) FOR SETUP OF TTC DEVICES WITHIN THE CALTRANS R-O-W. THIS PLAN SHEET IILLUSTRATES APPROXIMATE LOCATIONS AND LAYOUT ONLY. DISTANCES AND SIGNAGE SHALL BE PER CALTRANS STANDARD PLAN T12 AND T14. TTC PLANS SHALL FOLLOW CALTRANS STANDARD PLAN T11 FOR ANY SINGLE LANE CLOSURES REQUIRED WITHIN THE CALTRANS R-O-W.
- 3. DURING ALL TIMES OF ROAD WORK AND LANE CLOSURES THE CONTRACTOR SHALL ASSURE "SAFE" PEDESTRIAN AND BICYCLE ACCESS THROUGH THE WORK ZONE.
- 4. CONSTRUCTION HOURS SHALL BE WEEKDAYS BETWEEN 8:00 A.M. AND 6:30 P.M. UNLESS PRIOR APPROVAL IS RECEIVED FROM THE CITY OF SOUTH LAKE TAHOE.
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* NOTF *

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* CALL BEFORE YOU DIG * 1-800-227-2600

90% DRAFT NOT FOR CONSTRUCTION



SOUTH LAKE TAHOE, CA 96150 (530) 542-0201



CITY OF DEPART



CHAIN LINK CONSTRUCTION LIMIT FENCE

TEMPORARY TRAFFIC CONTROL

FAS SUPPORT OR TRAILER

DIRECTION OF TRAVEL

NOTES:

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CONSTRUCTION LIMIT FENCE CHANNELIZING DEVICES (CONE OR DRUM)

PORTABLE FLASHING BEACON

TYPE I OR II BARRICADE

THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF WORK FOR THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND FURTHER AGREES THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING

* NOTF *

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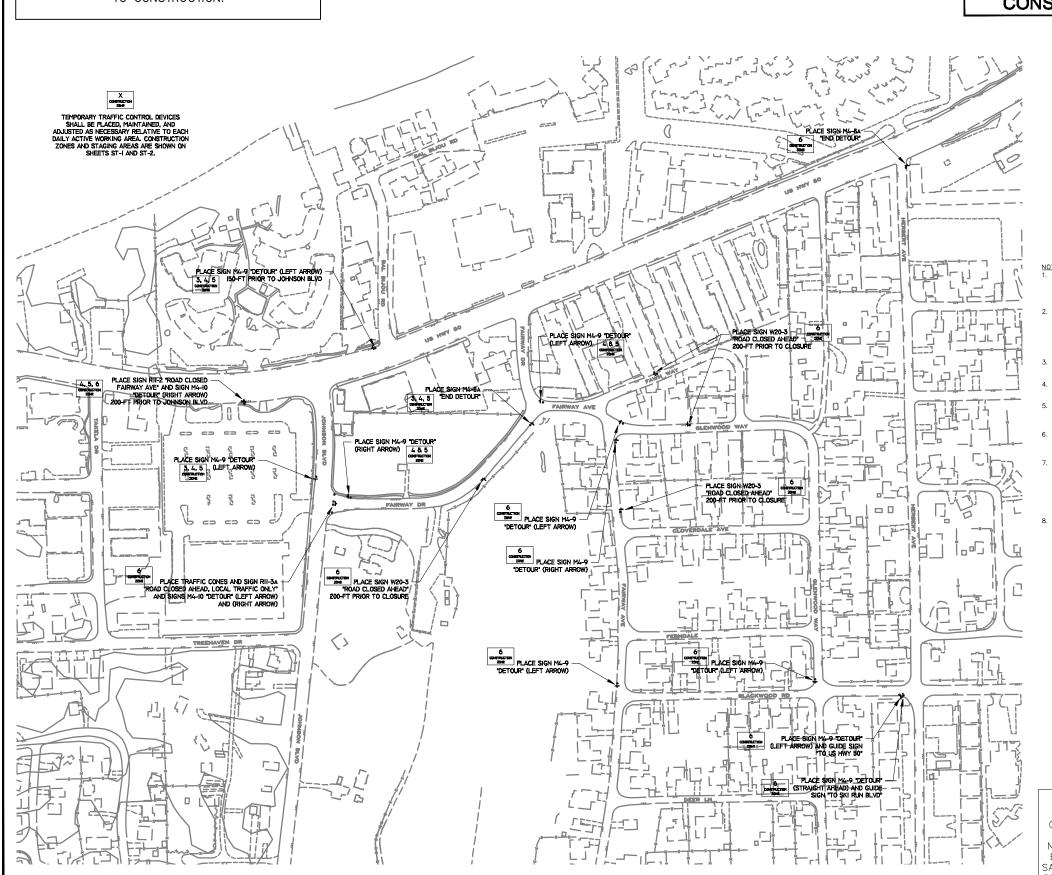
DESIGNED/DRAWN 8P/PW JD/8B/EL CHECKED 12/17/10 SCALE AS SHOWN JOB NO. 31141040.00

BIJON

CREEK CULVERT REPLACEMENT PROJECT TEMPORARY TRAFFIC CONTROL - 4 DETOURS SOUTH LAKE TAHOE, CALIFORNIA

FIGURE NO.

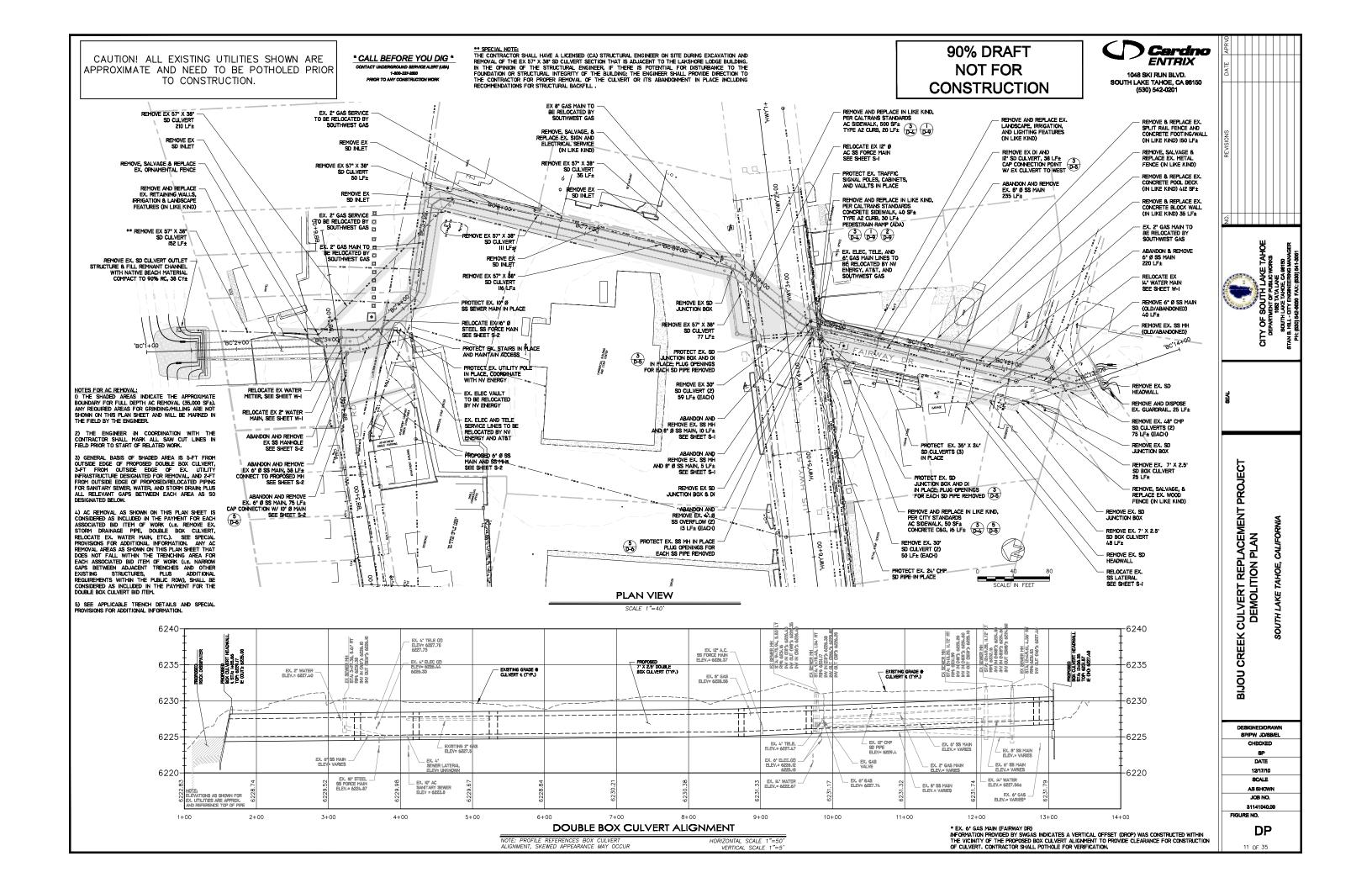
TC-4



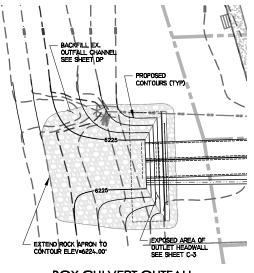
Cardno 90% DRAFT CAUTION! ALL EXISTING UTILITIES SHOWN ARE * CALL BEFORE YOU DIG * **NOT FOR** APPROXIMATE AND NEED TO BE POTHOLED PRIOR 1048 SKI RUN BLVD. SOUTH LAKE TAHOE, CA 96150 (530) 542-0201 TO CONSTRUCTION. CONSTRUCTION WHILE WORK IS TAKING PLACE IN CONSTRUCTION ZONE I,
OF EXISTING STORM DRAIN PIPE(S) AND HAVE 'TRASH PUMPS', INCLIDING
ALL OTHER NECESSARY HOSES AND APPLRTENANCES, STORED ON-SITE INSTALL TEMPORARY STORM DRAIN INLET PROTECTION (TYP) AT EXISTING DIS, PRIOR TO THEIR REMOVAL, TO CONTROL STORM WATER RUNOFF WITHIN PROJECT AREA ALL OTHER NECESSARY HOSES AND APPURTENANCES, STORED ON-SITE READY FOR USE. THE PUMPS (A-IN AND 8-IN, OR OTHER COMBINATION TO ATTAIN A MIN. PUMPING CAPACITY OF 3500 GPM) SHALL BE USED DURING A STORM EVENT TO BYPASS ANY STORM WATER FROM THE EXISTING UPSTREAM SYSTEM TO THE TEMPORARY SEDIMENT BASIN CREATED WITHIN THE NEWLY INSTALLED BOX CILLYETT. STORM WATER SHALL NOT BE DISCHARGED DIRECTLY TO LAKE TAHOE. FOLLOWING COMPLETION OF WORK IN CONSTRUCTION ZONE 4 AND PRIOR TO STARTING WORK IN CONSTRUCTION ZONES 5 AND 6; ALL DOWNSTREAM PROPOSED IMPROVEMENTS SHALL BE COMPLETED AND FULLY FUNCTIONAL, INCLUDING ALL PAVING AND FULLY FUNCTIONAL, INCLUDING ALL PAVING AND REVEGARESTORATION REQUIREMENTS. CONSTRUCTION ZONES I - 3 SHALL BE CLEAR OF ALL EQUIPMENT, FENCING, AND BMPB, EXCEPT THE GRAVEL BAG BERM AND TEMPORARY SEDIMENT BASIN AT THE BOX CULVERT OUTFALL. INSTALL CONSTRUCTION
LIMIT FENCE, 170 LF±

4
ECD-I PLACE WEIGHTED COIR LOG (OR EQUAL) TO CREATE SEDIMENT CHECK DAM TO CONTROL OFF-SITE STORM WATER, 90 LF±.
DURING A STORM EVENT, DIVERTO OR PUMP THE POOLES STORM
WATER TO THE TEMPORARY SEDIMENT BASIN CREATED WITHIN
HE NEWLY INSTALLED BOX CULVERT. STORM WATER SHALL, NOT
BE DISCHARGED DIRECTLY TO LAKE TAHOE. - INSTALL FILTER FENCE, ISO LF & 2
WILL BE DEPENDENT ON SEQUENCING OF PROJECT ELEMENTS AND REPLACEMENT OF EX. LANDSCAPING MATERIALS THAT ARE DISTURBED MA. DURING THE COURSE OF INSTALL FILTER FENCE 2 60 LF± ECD-J PLACE SEDIMENT CHECK DAMS (TYP)
ALONG BOX CILLVERT TRENCH, AT
IOO TI INTERVALS OR AS NECESSARY,
TO CONTROL STORM WATER RUNOFF
PRIOR TO ANY FINAL PAVING OR
LANDSCAPING INSTALLATIONS.

6
ECO-INSTALL GRAVEL BAG BERM (24-IN) TO CONTROL OFF-SITE STORM WATER AND CREATE A TEMPORARY 1 BASIN IN THE MEADOW, 40 LF± CITY OF DEPART INSTALL CONSTRUCTION
LIMIT FENCE, 80 LF±
4
ECD-I - INSTALL TEMPORARY STORM DRAIN INLET PROTECTION (TYP) AT NEW DIS TO CONTROL ECD-2 5 STORM WATER RUNOFF; PRIOR TO AND/OR FOLLOWING ANY GRADING, PAVING, OR LANDSCAPING INSTALLATIONS. ① INSTALL WATER FILLED BARRIER ON BEACH TO CREATE A DRY WORKING AREA FOR CONSTRUCTION OF CILVERT OUTFALL STRUCTURES (MIN. OF 100 LFs.)
② FOLLOWING THE COMPLETION OF ROCK APRON ADJUSTINOVE THE WATER FILLED BARRIER TO CREATE A TEMPORARY SEDIMENT BASIN WITHIN THE DOLUGE BOX CILVERT AS SHOWN IN THE DETAIL. FILTER FABRIC SHALL BE REPLACED FOLLOWING EACH STORM EVENT. ECD-2 INSTALL TREE PROTECTION FENCING (TYP) ECD-I PLACE SEDIMENT CHECK DAMS (TYP)
ALONG FLOW LINE TO CONTROL OFF-SITE
STORM WATER ALONG BAL BIJOU RD. INSTALL FILTER FENCE, 90 LF± 2 ADJACENT TO OPEN CHANNEL (ECD-I) - INSTALL CONSTRUCTION
LIMIT FENCE, 180 LF± WHILE WORK IS TAKING PLACE IN CONSTRUCTION ZONE 2.8.3.
CONTRACTOR SHALL PLACE A TEMPORARY PLUG IN DOWNSTREAM SECTION
OF EXISTING STORM DRAIN PIPE(S) AND HAVE TRASH PLMPS", INCLUDING
ALL OTHER NECESSARY HOSES AND APPLICITANCES, STORED ON-SITE
READY FOR USE. THE PLMPS (L-IN AND 8-IN, OR OTHER COMBINATION TO
ATTAIN A MIN, PLMPING CAPACITY OF 3500 GPM) SHALL BE USED DURING A
STORM EVENT TO BYPASS ANY STORM WATER FROM THE EXISTING
UPSTREAM SYSTEM TO THE TEMPORARY SEDIMENT BASIN CREATED WITHIN
THE NEWLY INSTALLED BOX CULVERT. STORM WATER SHALL NOT BE
DISCHARGED DIRECTLY TO LAKE TAHOE. CREEK CULVERT REPLACEMENT PROJECT TEMPORARY EROSION CONTROL - INSTALL TEMPORARY STORM DRAIN INLET PROTECTION (TYP) AT EXISTING DIS, TO CONTROL STORM WATER RINOFF WITHIN THE PROJECT AREA NOTE: EXACT LOCATION OF FENCE (CLF) AND WATER FILLED BARRIER TO BE DETERMINED BY ENGINEER, BASED ON LAKE LEVEL AT TIME OF CONSTRUCTION. 支 NOTE:
CONTRACTOR SHALL HAVE SUFFICIENT
QUANTITIES OF WEIGHTED COIR LOGS
STORED ON SITE FOR THE FOLLOWING
APPLICATION DURING STORM EVENTS:
COIR LOGS SHALL BE PLACED ADJACENT TO
ANY OPEN TRENCH (I.E. PROTECT EXPOSED)
SOIL) TO DIRECT STORM WATER RUNOFF TO
THE TEMPORARY SEDIMENT BASIN CREATED
WITHIN THE NEWLY INSTALLED BOX
CULYERT. TRPA VERIFIED BACKSHORE AND 10-FT SETBACK LEGEND FOR TEC DEVICES X coemiction 2016 CHAIN LINK CONSTRUCTION LIMIT FENCE TEMPORARY EROSION CONTROL DEVICES SHALL BE PLACED, MAINTAINED, AND ADJUSTED AS NECESSARY RELATIVE TO EACH BIJOU DAILY ACTIVE WORKING AREA. CONSTRUCTION ZONES AND STAGING AREAS ARE SHOWN ON FILTER FENCE CONSTRUCTION LIMIT FENCE SEDIMENT CHECK DAM NOTES:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL TEMPORARY EROSION CONTROL MEASURES. THE EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE TRPA "HANDBOOK OF BEST MANAGEMENT PRACTICES"
AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CITY SHALL CONTACT TRPA PRIOR TO THE COMMENCEMENT OF WORK FOR A PRE-GRADING INSPECTION OF THE INSTALLED TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT. SEE SPECIAL PROVISIONS REGARDING TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT. SEE SPECIAL PROVISIONS REGARDING TEMPORARY EROSION SP/PW_JD/SB/EL STORM DRAIN INLET PROTECTION CHECKED 2. ALL TRENCHES SHALL BE BACKFILLED OR COVERED WITH TRENCH PLATING BY THE END OF EACH WORK DAY. ALL PERMANENT (OR TEMPORARY) PAVEMENT REQUIRED WITHIN THE TRENCHING AREAS SHALL BE PLACED BY THE END OF EACH WORK DAY. SEE SPECIAL PROVISIONS FOR ADDITIONAL DETAILS AND REQUIREMENTS. DATE 12/17/10 * NOTF * 3. THE CONTRACTOR IS REQUIRED TO PERFORM PREVENTIVE DUST CONTROL MEASURES IN ACCORDANCE WITH THE SPECIAL PROVISIONS, STANDARD SPECIFICATIONS, AND PERMIT REQUIREMENTS. SCALE THIS PLAN SHEET IS DIAGRAMMATIC ONLY. ALL 4. CONSTRUCTION LIMITS SHOWN ON THE PLAN SHEETS DELINEATE BOUNDARIES FOR THE CONTRACTOR'S OPERATIONS; AND CONSTRUCTION LIMIT FENCING SHALL BE ERECTED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE USE OF CHAIN LINK FENCING AS SHOWN ON THE PLAN SHEETS IS MANDATORY. AS SHOWN TEMPORARY EROSION CONTROL DEVICES AND FENCING JOB NO. ARE THE RESPONSIBILITY OF THE CONTRACTOR AND 5. WITHIN THE CONSTRUCTION LIMITS, EXISTING VEGETATION SHALL BE PROTECTED TO THE EXTENT FEASIBLE. ALL EXISTING TREES SHALL BE PROTECTED UNLESS SHOWN ON THE PLANS TO BE REMOVED. 31141040.00 SHALL BE MODIFIED AS NECESSARY PER PROGRESSION FIGURE NO. 6. ALL WORK IS TO BE ACCOMPLISHED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRE-APPROVED DESIGNATED PRIVATE PROPERTY AREAS; AND SHALL COMPLY WITH ALL PERMIT REQUIREMENTS. OF THE WORK TO REFLECT EACH DAILY ACTIVE WORKING AREA; AND FOR THE PRESERVATION PROPERTY. 7. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF WORK FOR THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND FURTHER AGREES THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. EC



* CALL BEFORE YOU DIG *



INSTALL BOX CULVERT DI STA: 'BC'5+46.39, 4.25'L 3 SHADED AREA:

1) GRIND AND PROFILE MILL EXISTING AC
AS DIRECTED BY ENGINEER, 7,500 SF±
2) AC PAVING, DEPTH VARIES, 460 TN± REMOVE EX STORM DRAIN SYSTEM SEE SHEET DP INSTALL BOX CULVERT MH (2) STA:'BC'5+II.66, 4.25'R D-3 STA:'BC'5+II.68, 4.25'L PROTECT EX 10° SS MAIN IN PLACE ENCASE W/ 2-SACK SAND CEMENT SLURRY INSTALL BOX CULVERT MH STA:'BC'5+46.39, 4.25'R INSTALL BOX CULVERT MH (2) STA: 'BC'4+35.36, 4.25'R L D-3 STA: 'BC'4+35.36, 4.25'L D-3 SS LATERAL RELOCATION SEE SHEET S-2 NSTALL 7-X 2.5' DBL.
BOX CULVED INSTALL BOX CULVERT MH D-3 STA: 'BC'3+26.37, 4.25'L INSTALL BOX CULVERT DI STA: BC 2+95.16, 4.25 L INSTALL 7' X 2.5' DBL. 2 BOX CULVERT 0-3 180 LF± INSTALL 7' X 2.5' DBL. 2 BOX CULVERT 165 LF± - INSTALL BOX CULVERT DI STA:'BC'5+99.50, 4.25'L 3 - INSTALL 7' X 2.5' DBL.
BOX CULVERT
ANGLE POINT
II LF± - INSTALL 7' X 2.5' DBL 2 OPT INSTALL 24" HDPE STORM DRAIN PIPE, 160 LF±
CAP SOUTH END OF PIPE FOR FUTURE CONNECTION INSTALL 7' X 2.5' DBL. STA:'BC'1+57.30, 10.37'R STA:'BC'3+16.25, 14.45'R BOX CULVERT ANGLE POINT 9 LF± 2 D-3 D-1 CONSTRUCT HEADWALL BARRIER FENCE, 38 LF± WATER METER & 2" WATER MAIN RELOCATION SEE SHEET W-I - INSTALL 7' X 2.5' DBL BOX CULVERT 2 73 LF± D-3 - INSTALL DBL. BOX CULVERT HEADWALL SEE SHEET C-3 INSTALL BOX CULVERT MH
STA:'BC'5+26.57, 4.25'R
D-3 PROPOSED GRADING & EXCAVATION FOR BOX CULVERT OUTLET CHANNEL AND ROCK DISSIPATER, 407 CY± SANITARY SEWER RELOCATION SEE SHEET S-2 CONSTRUCT ROCK DISSIPATER APRON, COVER WITH NATIVE BEACH SAND TO BLEND WITH ADJACENT AREA, 2900 SF± **PLAN VIEW**



1048 SKI RUN BLVD. SOUTH LAKE TAHOE, CA 96150 (530) 542-0201

90% DRAFT **NOT FOR** CONSTRUCTION

NOTES FOR FINAL AC PATCH/RESTORATION PAYING:
1) THE SHADED AREAS INDICATE THE APPROXIMATE BOUNDARY FOR FINAL AC
PATCH/RESTORATION PAYING WORK (20,300 SF±), DEPTH VARIES, TOTAL
INCLUDES ADDITIONAL GRINDING/MILLING AREAS.

2) THE ENGINEER IN COORDINATION WITH THE CONTRACTOR SHALL MARK ALL AREAS IN THE FIELD PRIOR TO START OF RELATED WORK, INCLIDING ANY AREAS THAT REQUIRE ADDITIONAL SAW-CUTS OR GRINDING/MILLING TO ALLOW FOR PROPER TIE-IN TO EXISTING (SEE TYPICAL TRENCH DETAILS FOR THE REQUIRED PATCH PAYING "T CAP). NOTE THAT GRINDING/MILLING OF ADDITIONAL AREAS WITHIN THE CALTRANS AND CSLT ROW WILL BE NECESSARY TO COMPLETE THE FINAL AC PATCH/RESTORATION PAYING WORK.

3) SEE ALL APPLICABLE TRENCH DETAILS, SPECIAL PROVISIONS, AND PERMITS FOR ADDITIONAL INFORMATION.

CREEK CULVERT REPLACEMENT PROJECT BOX CULVERT, STA 1+00 TO 7+00 CALI SOUTH LAKE TAHOE,

DESIGNED/DRAWN 8P/PW JD/8B/EL CHECKED DATE 12/17/10 SCALE AS SHOWN JOB NO. 31141040.00 FIGURE NO.

BIJOU (

C-1

6240-6240 INSTALL 49 LF CULVERT ANGLE © 0.12% IE (IN): 6225.19 IE (CUT): 6225.18 INSTALL ±II LF CULVERT ANGLE ● 0.09% IE (IN): 6225.38 IE (OUT): 6225.3 L BOX CULVERT RIM: 6229.75 RIM: 6229.75 L BOX CULVERT RIM: 6229.60 RIM: 6229.60 6235 -6235 MH (2), MH (2), R BOX CULVERT IE (OUT): 6226. INSTALL ±73 LF DBL 7' X 2.5' CONCRETE BOX CULVERTS @ 0.10% EXISTING GRADE @ CULVERT ((TYP.) 6230-6230 HISTALL ±165 LF
DBL 7' X 2.5' CONCRETE BOX CULVERTS

● 0.10% INSTALL ±180 LF
DBL 7' X 2.5' CONCRETE BOX CULVERTS
@ 0.10% INSTALL ±97 LF
DBL 7' X 2.5' CONCRETE BOX
CULVERTS © 0.10% 6225 6225 EX. 2° WATER ELEV.= 6227.40± EX, 4* 6220-SEWER LATERAL ELEV= UNKNOWN -6220 160° of 24° Ø RCP ● 0.19% IE (IN): 6225.30, IE (OUT): 6225.00 EX. 10" AC EX. 4° ELEC (2) ELEV= 6226.44± 6226.33± SANITARY SEWER ELEV = 6223.8± CONSTRUCT ROCK DISSIPATER APRON EX. I6" STEE -6215 6215-ELEV.= 6224.87± HOTE: ELEVATIONS AS SHOWN FOR EX. UTILITIES ARE APPROX. AND REFERENCE TOP OF PIPE 2+00 5+00 1+00 6+00 7+00

SCALE 1"=40'

PROPOSED DOUBLE BOX CULVERT

NOTE: PROFILE REFERENCES BOX CULVERT ALIGNMENT, SKEWED APPEARANCE MAY OCCUR

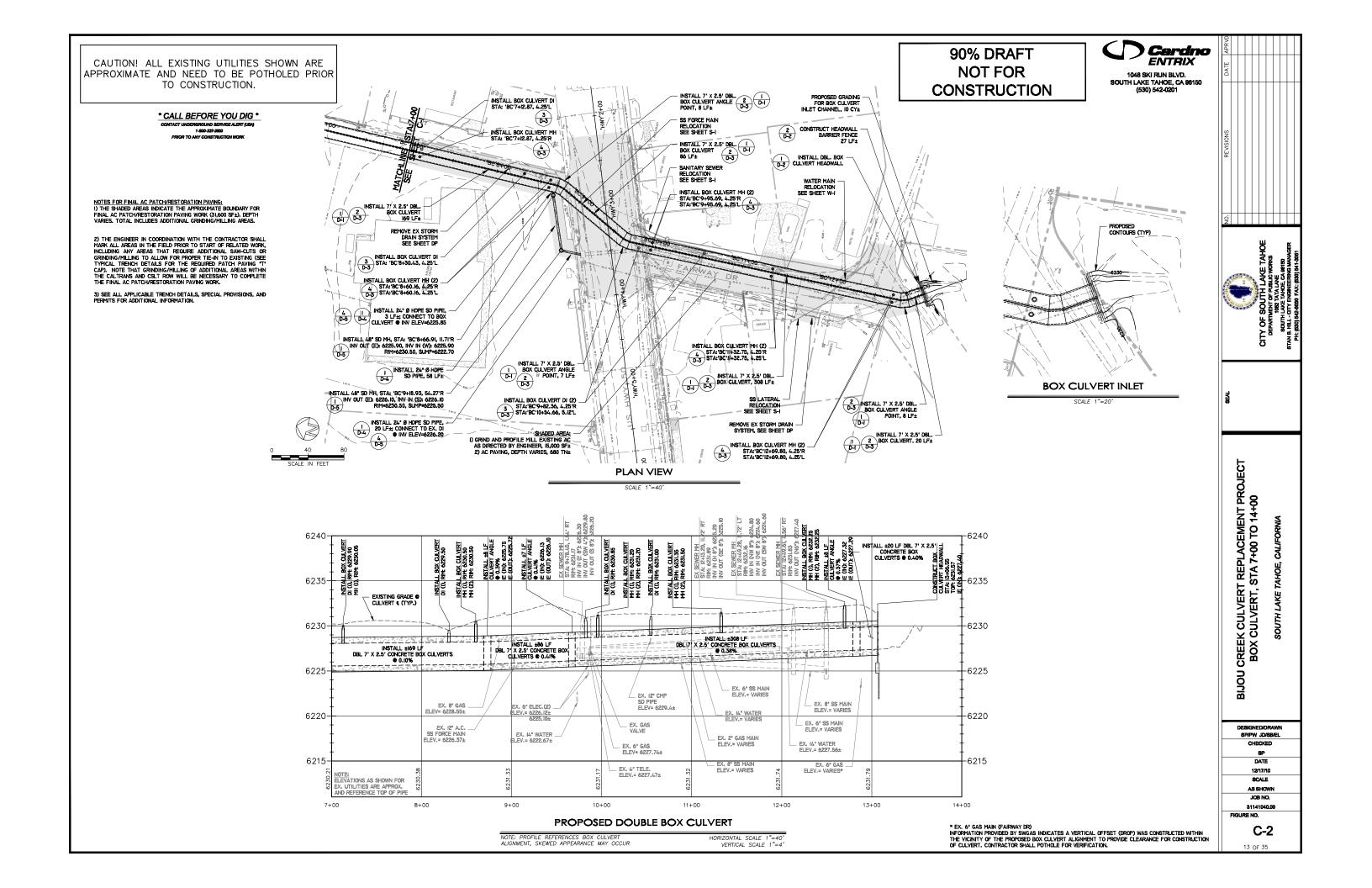
HORIZONTAL SCALE 1"=40' VERTICAL SCALE 1"=4'

TO CONSTRUCTION.

IGROUND SERVIC 1-800-227-2600

BOX CULVERT OUTFALL

SCALE 1"=20"



1.0 OUTLET HEADWALL GENERAL NOTES

- 1.01 IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE PROPOSED IMPROVEMENTS DO NOT CONFLICT WITH EXISTING OR PROPOSED UTILITIES.

2.0 OUTLET HEADWALL SHOTCRETE NOTES:

- 2.02 SHOTCRETE:

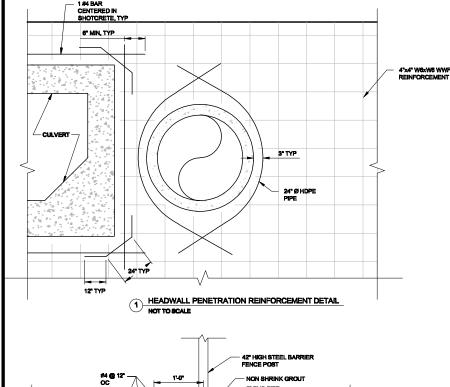
 1 TYPE II CEMENT

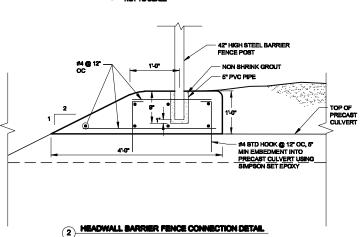
 10 = 4500 PBI (MINIMUM 28-DAY COMPRESSIVE STRENGTH)

 MAX WATER-TO-CEMENT (WC) RATTO = 0.46 BY WEIGHT

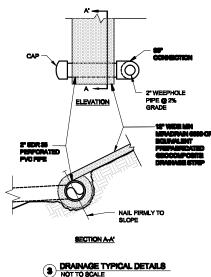
2.04 REINFORCING STEEL (REBAR): GRADE 60 ASTM AS15 BILLET STEEL 5 15 - 60 KSI LAP SPLICE - 24" FOR 24 BAR MIN COVER - 3" UNLESS OTHERWIS

- 2.12 RECESS ALL PVC PIPE SUCH THAT ALL EDGES OF PVC PIPE ARE COVERED WITH 1° MIN SHOTCRETE





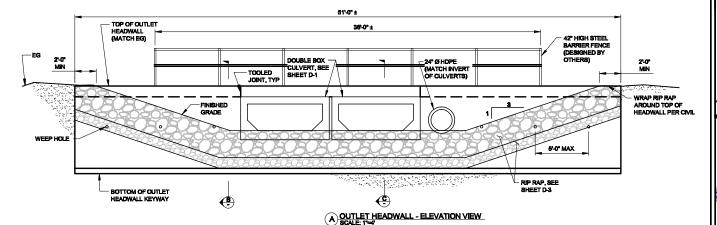
NOT TO SCALE

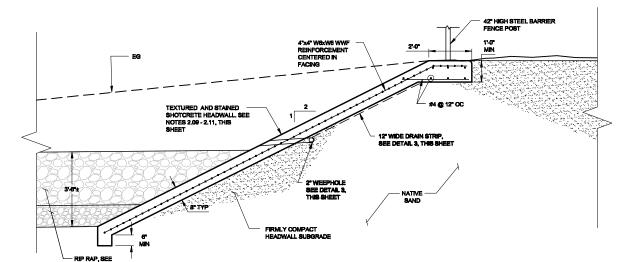


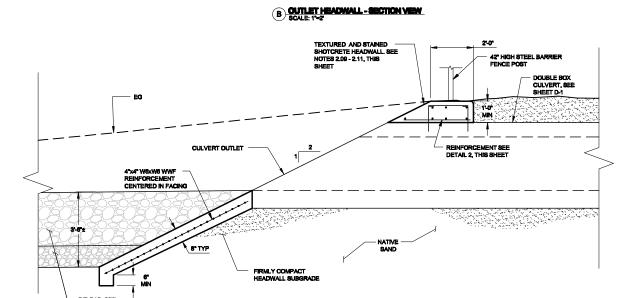
90% DRAFT **NOT FOR** CONSTRUCTION



4100 Douglas Shri., Sts. 100 Grante Say, CA 66746 P (010) 720-0000 F (010) 720-7706







C OUTLET HEADWALL - SECTION VIEW

Ö

BIJOU CREEK CULVERT REPLACEMENT PROJECT OUTLET HEADWALL DETAILS

WLM 05/21/10 SCALE AS SHOWN JOB NO. 31141040.00

C-3

CAUTION! ALL EXISTING UTILITIES SHOWN ARE * CALL BEFORE YOU DIG * APPROXIMATE AND NEED TO BE POTHOLED PRIOR TO CONSTRUCTION. INSTALL 48" SS MH STA: 'HWY'3+25.52, 28.14'L CONNECT EX 8" SS MAIN LINE INSTALL B' Ø SDR 26 PVC (D-4) (6 D-6) RELOCATE EX. SS LATERAL, 5 LF± IF 6° OR GREATER CONNECT TO NEW SS MH - OTHERWISE CONNECT TO MAIN UPSTREAM FROM SS MH INSTALL SS FLUSH INLET AT END OF 8' SS MAIN LINE STUB (N) OF MH STA: 'BC'12+05.79, II.40'R 6240 EXISTING GRADE (CULVERT & (TYP.) WATER MAIN RELOCATION SEE SHEET W-I INSTALL 48° SS MH STA: 'BC'10+11.06, 11.93'L INV OUT (S): 6226.00, INV IN (N): 6226.10 EX. GAS SERVIO STA: 'HWY'2+75.30, 26.05'F RELOCATE EX. 12' AC EX. GAS SERVICE ELEV.= VARIES STA: 'HWY'3+I4.96, 25.76'R 6230-FOR 7' X 2.5' DOUBLE BOX CULVERT & SO IMPROVEMENTS SEE SHEET C-2 EX. 6° GAS ELEV= 6227.74± 6225 ABANDON AND REMOVE

EX SS MH AND REMOVE

SECTION OF EX 8° Ø SS MAIN

SEE SHEET DP EX. 8" Ø SS MAIN TO BE ABANDONED AND REMOVED 5-FT STUB TO REMAIN EX. 4" TELE. ELEV.= 6227.47± ABANDON AND REMOVE EX SS MH AND REMNANT SECTION OF EX 8" Ø SS MAIN SEE SHEET DP 6220-6225.IO± SS LATERAL 3 REMOVE OLD/ABANDONED 6" Ø SS MAIN AND SS MH SEE SHEET DP EX. 14" WATER ELEV.= 6222.67± ABANDON AND REMOVE -EX SS MH AND 4" Ø SS OVERFLOW LINES (2), SEE SHEET DP RELOCATE EX. SS LATERAL, 58 LF±
CONNECT TO 8" Ø MAIN LINE STUB
BETWEEN FLUSH INLET AND SS MH

D-6 9+50 10+00 11+00 PROTECT EX SS MH
D-6 IN PLACE; PLUG OPENINGS

FOR EACH SS PIPE REMOVED FLUSH INLET & SS LATERAL - FAIRWAY DR ABANDON AND REMOVE EX 8° 8' SS MAIN LEAVE 5-FT STUB AT MH TO EAST FOR NEW LATERAL CONNECTION SEE SHEET DP NOTE: PROFILE REFERENCES BOX CULVERT ALIGNMENT, SKEWED APPEARANCE MAY OCCUR ABANDON AND REMOVE 6" Ø SS MAIN SEE SHEET DP **PLAN VIEW** SCALE 1"=40' 6240-EX. 2" ELEC. TRAFFIC ELEV= 6229.0± 6240 -6240 EXISTING GRADE 6235 ● US 50 € (TYP.) SEWER MH 1: 12+42.28, 1: 6232.16 IN (E 8'): 6 OUT (SW 8' 6235 -6235 SS FORCE MAIN 6230-EXISTING GRADE (CULVERT (L (TYP.) SECTION TO BE RELOCATED 6230 -6230 6225 PROPOSED 12" Ø PVC OR DUCTILE IRON SEWER FORCE MAIN VERTICAL TRANSITION (SEE DETAIL FOR ADDITIONAL INFORMATION ON COUPLINGS, FITTINGS, RESTRAINTS, ETC.) 230 ' of 8" Ø SDR 26 PVC @ 0.52% 6225 -6225 6220-PROPOSED 12' Ø PVC OR DUCTILE IRON SEWER FORCE MAIN INV ELEV=5222.00 ±, 40 LF± PROPOSED 12" Ø PVC OR DUCTILE IRON SEWER FORCE MAIN VERTICAL TRANSITION (SEE DETAIL FOR ADDITIONAL INFORMATION ON COUPLINGS, FITTINGS, RESTRAINTS, ETC.) EX. 14" WATER ELEV.= 6227.56± 57 or 8" Ø SDR 26 PVC @ 0.49% 6220 -6220 6215 CONNECT PROPOSED 8" SS MAIN TO EX. MH • ELEV = 6224.80± 6225,10± NOTE: ELEVATIONS AS SHOWN FOR EX. 14" WATER ELEV.= 6222.67± EX. UTILITIES ARE APPROX. AND REFERENCE TOP OF PIPE EX. UTILITIES ARE APPROX.
AND REFERENCE TOP OF PIPE 10+00 11+00 12+00 13+00 8+00 RELOCATION OF 8" SS MAIN - FAIRWAY DR 12" AC SS FORCE MAIN RELOCATION - HWY 50 NOTE: PROFILE REFERENCES BOX CULVERT ALIGNMENT, SKEWED APPEARANCE MAY OCCUR NOTE: PROFILE REFERENCES US HWY 50 ALIGNMENT, SKEWED APPEARANCE MAY OCCUR

90% DRAFT **NOT FOR** CONSTRUCTION



6235

6230

6225

-6220

6240

6235

6230

6225

(2 D-8

6220

6215

5+00

EX 8" Ø SS MAIN PROTECT IN PLACE

NOTE: ELEVATIONS AS SHOWN FOR

EX. UTILITIES ARE APPROX.
AND REFERENCE TOP OF PIPE

HORIZONTAL SCALE 1"=40' VERTICAL SCALE 1"=4'

EX. 24" CMP

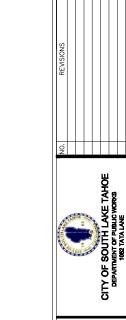
ELEV= 6228.4± PROTECT IN PLACE

EX. 2" ELEC. TRAFFIC

ELEV= 6229.0±

12+00

SOUTH LAKE TAHOE, CA 96150 (530) 542-0201



CREEK CULVERT REPLACEMENT PROJECT RELOCATION - FAIRWAY AVE & US HWY 50 SE TAHOE, SOUTHI

BIJOU C SEWER I

DESIGNED/DRAWN 8P/PW JD/8B/EL CHECKED DATE 12/17/10 SCALE AS SHOWN JOB NO. 31141040.00 FIGURE NO. **S-1**

* CALL BEFORE YOU DIG *
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-227-2800
PRIOR TO ANY CONSTRUCTION WORK

90% DRAFT
NOT FOR
CONSTRUCTION



1048 SKI RUN BLVD. SOUTH LAKE TAHOE, CA 96150 (530) 542-0201



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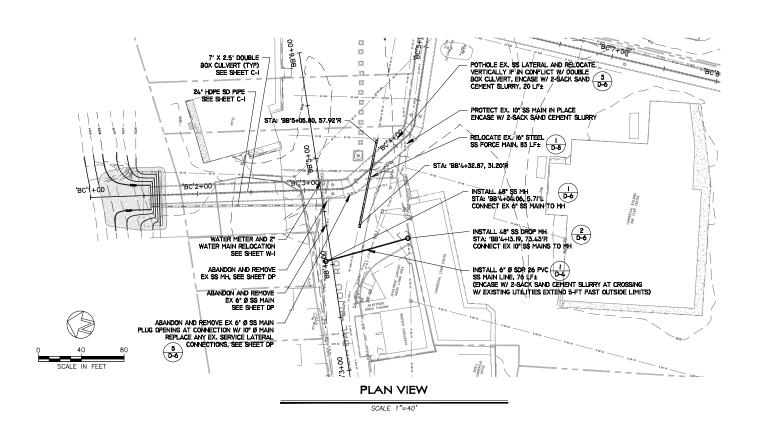
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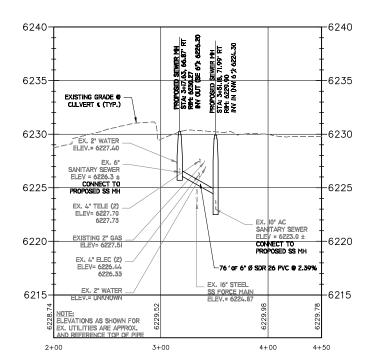
CREEK CULVERT REPLACEMENT PROJECT SEWER RELOCATION - BAL BIJOU RD SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN SP/PW JD/SB/EL CHECKED SP DATE 12/17/10 SCALE AS SHOWN JOB NO. 31141040.00

BIJOU

FIGURE NO.

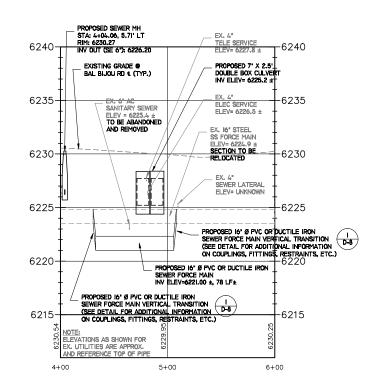




PROPOSED 6" \$\$ MAIN - BAL BIJOU RD

NOTE: PROFILE REFERENCES BOX CULVERT ALIGNMENT, SKEWED APPEARANCE MAY OCCUR

VERTICAL SCALE 1"=40" VERTICAL SCALE 1"=4"



16" \$\$ FORCE MAIN RELOCATION

NOTE: PROFILE REFERENCES BAL BIJOU RD ALIGNMENT, SKEWED APPEARANCE MAY OCCUR HORIZONTAL SCALE 1"=40' VERTICAL SCALE 1"=4'

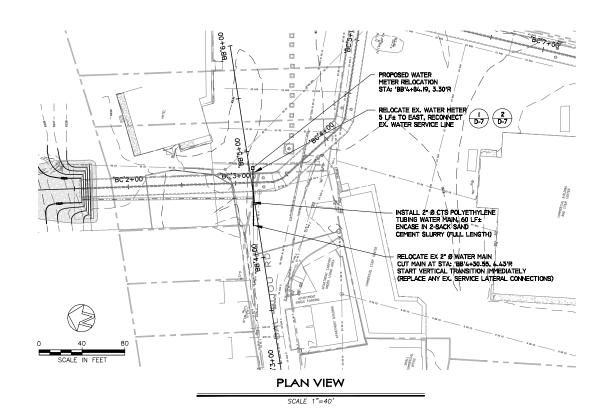
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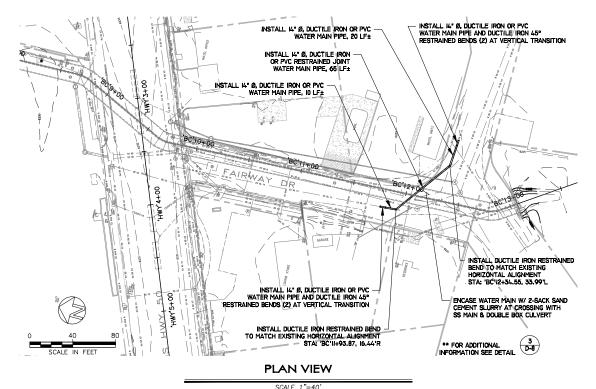
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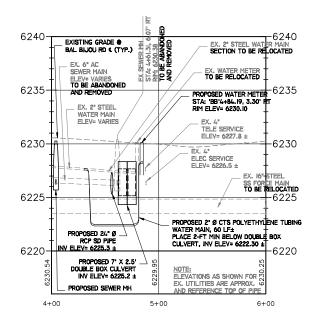


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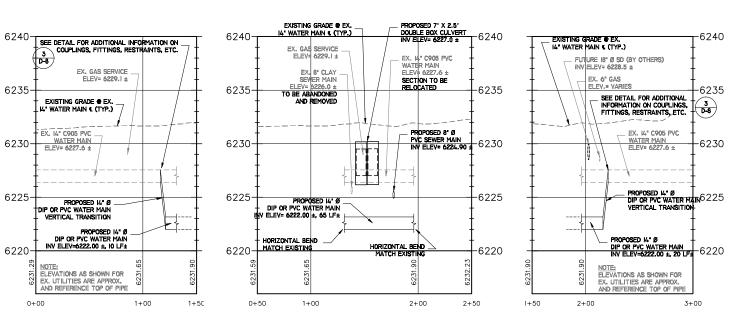








NOTE: PROFILE REFERENCES BAL BIJOU RD ALIGNMENT. SKEWED APPEARANCE MAY OCCUR



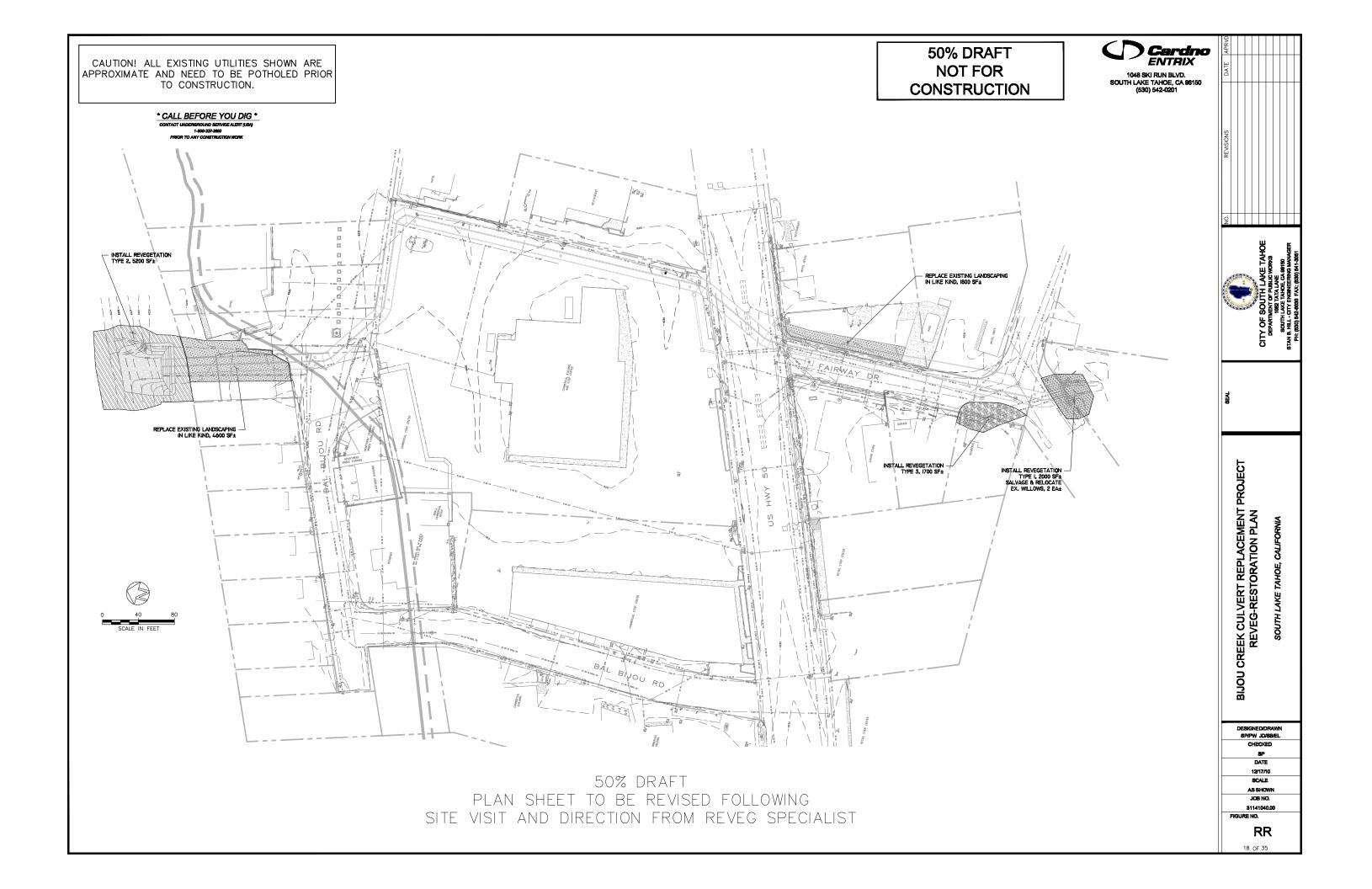
EXISTING 14" WATER MAIN RELOCATION - FAIRWAY DR

THIS PROFILE IS FOR REFERENCE ONLY AND FOLLOWS THE EX. 14" WATER MAIN ALIGNMENT. STATION NUMBERS ARE NOT SHOWN IN THE PLAN VIEW. HORIZONTAL SCALE 1"=40' VERTICAL SCALE 1"=4'

REPLACEMENT PROJECT MAIN RELOCATION CALIFORN CREEK CULVERT R POTABLE WATER M BIJOU

CITY OF DEPART

DESIGNED/DRAWN 8P/PW JD/8B/EL CHECKED DATE 12/17/10 SCALE AS SHOWN JOB NO. 31141040.00 FIGURE NO. W-1

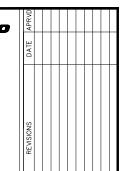


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CONSTRUCTION



1048 SKI RUN BLVD. SOUTH LAKE TAHOE, CA 96150 (530) 542-0201



OF SOUTH LAVE TAHOE FEARTHENT OF PUBLIC WORKS THORY TANKE, LAVE SOUTH LAVE TANKE, LAVE SOUTH LAVE TANKE, LAVE

SEAL

CREEK CULVERT REPLACEMENT PROJEC
TRAFFIC CONTROL DEVICES
SOUTH LAKE TAHOE, CALIFORNIA

DESIGNED/DRAWN SP/PW JD/SB/EL CHECKED SP

BIJOU

DATE
12/17/10
SCALE

AS SHOWN
JOB NO.
31141040.00

FIGURE NO.

TCD

EX. TCD MARKINGS

(8° WHITE, GHANNELIZING LIND)

REPLACE FER CALTRANS

STANDARDS, 80 LF2

EX. TCD MARKINGS

(6' WHITE, BIRE LINE LINE)

REPLACE FER CALTRANS

STANDARDS, 100 LF2

EX. TCD MARKINGS

(6' WHITE, BIRE LINE LINE)

REPLACE FER CALTRANS

STANDARDS, 100 LF2

EX. TCD MARKINGS

(6' WHITE, LANE LINE)

REPLACE FER CALTRANS

STANDARDS, 100 LF2

EX. TCD MARKINGS

(6' WHITE, LANE LINE)

REPLACE FER CALTRANS

STANDARDS, 100 LF2

EX. TCD MARKINGS

(6' WHITE, BIRE LANE LINE)

REPLACE FER CALTRANS

STANDARDS, 100 LF2

EX. TCD MARKINGS

(12' WHITE, CROSSWALK AND LIMIT LINE)

REPLACE FER CALTRANS STANDARDS, 100 LF2

EX. TRAFFIC LOOPS, AND CORDUITS, REPLACE FER CALTRANS STANDARDS, 100 LF2

EX. TRAFFIC LOOPS, AND CORDUITS, REPLACE FER CALTRANS STANDARDS, 100 LF2

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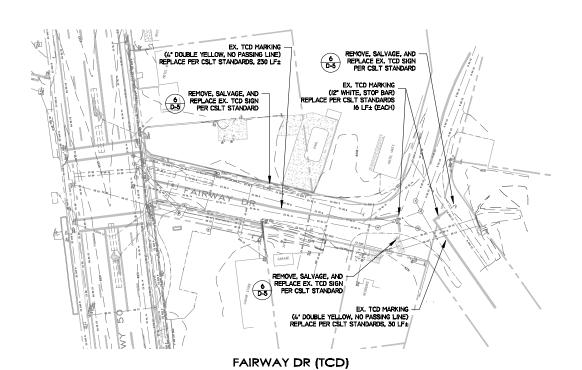
EX. TRAFFIC LOOPS, AND CORDUITS, REPLACE FER CALTRANS STANDARDS, 100 LF2

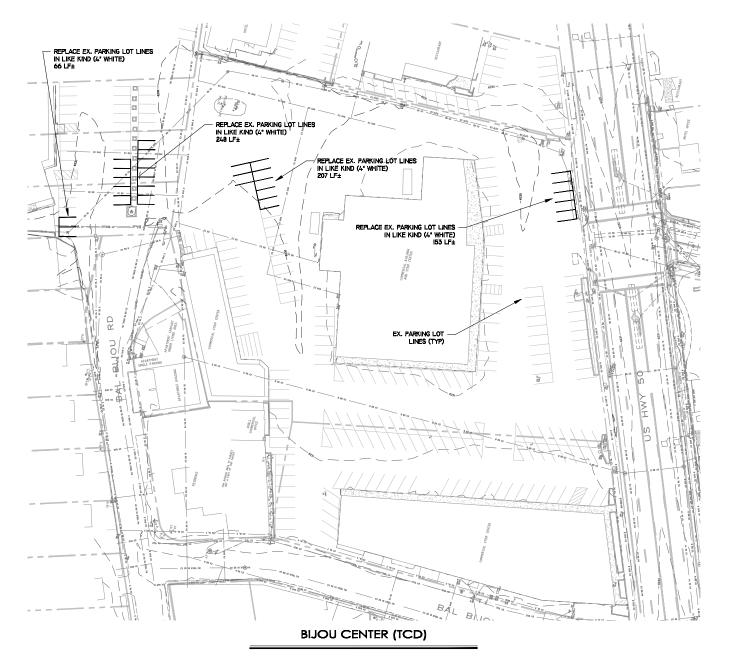
EX. TRAFFIC LOOPS, AND CORDUITS, REPLACE FER CALTRANS STANDARDS, 100 LF2

EX. TRAFFIC LOOPS, AND CORDUITS, REPLACE FER CALTRANS STANDARDS, 100 LF2

EX. TRAFFIC LOOPS, AND CORDUITS, REPLACE FER CALTRANS STANDARDS, 100 LF2

EX. TRAFFIC LOOPS, AND





NOTES:

- 1. THE LOCATIONS OF THE EXISTING CALTRANS TRAFFIC SIGNAL ELECTRICAL CONDUIT AND LOOP DETECTORS, AS SHOWN ON THE PLANS, ARE BASED ON INFORMATION FROM CALTRANS PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY 50 (TROUT CREEK BRIDGE TO SKI RUN BLVD, CONTRACT No. 03-1A73U4).
- 2. ALL PERMANENT TRAFFIC CONTROL DEVICES (TCD), THAT ARE DISTURBED AND/OR REQUIRED TO BE REPLACED OR INSTALLED, SHALL BE IN ACCORDANCE WITH THE CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS MAY 2006 EDITION, CALTRANS STANDARD SPECIFICATIONS MAY 2006 EDITION, THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2003 EDITION AND MUTCD 2003 CALIFORNIA SUPPLEMENT, THE CITY OF SOUTH LAKE TAHOE (CSLT) STANDARD DETAILS, THE SPECIAL PROVISIONS, AND THESE PLANS.
- 3. ALL PERMANENT TCD (INCLUDING REPLACEMENT OF EXISTING) ARE TO BE LAID OUT BY THE CONTRACTOR AND ENGINEER. NO TCD SHALL BE INSTALLED PRIOR TO APPROVAL OF LAYOUTS BY THE ENGINEER.
- 4. REPLACEMENT AND INSTALLATION OF ANY CALTRANS TRAFFIC SIGNAL ELECTRICAL CONDUIT, CONDUCTORS, AND/OR LOOP DETECTORS SHALL BE PER CALTRANS STANDARDS AND THE APPLICABLE ENCROACHMENT PERMIT FOR THIS PROJECT. THE CONTRACTOR SHALL COORDINATE WITH AND RECEIVE APPROVAL FROM THE CALTRANS REPRESENTATIVE AND ENGINEER PRIOR TO INSTALLATION OF ANY TRAFFIC SIGNAL ELECTRICAL COMPONENTS.
- 5. ALL MAILBOXES, PRIVATE SIGNS, AND OTHER OBJECTS (UNLESS OTHERWISE NOTED ON THE PLANS) IN INTERFERENCE WITH THE PROPER CONSTRUCTION OF THE PROJECT SHALL BE REMOVED AND REPLACED/RELOCATED BY THE CONTRACTOR. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE VARIOUS CONTRACT ITEMS OF WORK AND NO SEPARATE PAYMENT SHALL BE ALLOWED FOR.
- 6. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE, PLACE, AND MAINTAIN ALL TEMPORARY TRAFFIC CONTROL DEVICES NECESSARY TO COMPLETE THE WORK AS SHOWN ON THIS PLAN SHEET; IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, PLANS, AND DETAILS AS NOTED ABOVE.

15.00

PLAN

7.50'

1.5' MIN-

1"X2"X4' LATH OR AS APPROVED BY ENGINEER

DETAIL 'A'

STAPLE NAILED TO LATH NOT IN TREE

1/4" STEEL CABLE STRUNG THROUGH STAPLES AND BOUND TIGHTLY AROUND TREE

NOT AT DRIPLINE

(3 TOTAL) PER LATH

1.33' 1.33

1.33

EXISTING TREE ~

1"X2"X4' LATH -

BOUND TO TREE SEE DETAIL 'A'

2.00

15.00

ELEVATION TYPICAL FILTER FENCE TYPE 1 AT PIPE

TRENCH IN BACKFILL AREAS

& 13.8 24.3.11

FENCE POST (TYP). WRAF FENCING MATERIAL AROUND POST AND TIE AROUND POST

WOVEN FILTER FABRIC

SLOPE

FINISHED GRADE

FXISTING GROUND

BURY TOE OF NON-WOVEN FILTER FABRIC 0.50' IN TRENCH ON UPSLOPE SIDE

ECD-1

- METAL FENCE POSTS @ 10.00' CC LENGTH OF POST = 5.00' MIN EMBEDDED DEPTH = 1.00'

* CALL BEFORE YOU DIG * 1-800-227-2600

90% DRAFT **NOT FOR** CONSTRUCTION



FENCE POST TYP -

AS REQUIRED, SEE SPECIAL PROVISIONS

FLOW

GRAVEL FILLED BAGS WRAPPED WITH WOVEN FILTER FABRIC OR WEIGHTED COIR LOGS,

GRAVEL FILLED BAGS WRAPPED WITH WOVEN FILTER FABRIC OR WEIGHTED COIR LOGS, SEE SPECIAL PROVISIONS

SEE SPECIAL PROVISIONS

PROPOSED CURB AND GUTTER

OR PIPE TRENCH EXCAVATION SECTION

NON WOVEN FILTER

RLC OR GLS EXCAVATION

- GRAVEL FILLED BAGS OR RICE BALES SEE SPECIAL PROVISIONS

FENCE POST TYP. WRAF

@ 0.67' OC W/WIRE

SPECIAL PROVISIONS

TOP OF SLOPE

ECD-1

VARIES

TYPICAL SEDIMENT CONTROL AT C&G, AC SWALE & PIPE TRENCH EXCAVATIONS

NOTE: 1. APPLY TO COMPACTED SURFACES SUCH AS SUBGRADE FOR CONCRETE WORK AND AC PAVING.

TYPICAL FILTER FENCE

TYPE 3 AT SWALES

SAWCUT

EXISTING AC

SAW CUT -

EXISTING AC

WOVEN FILTER FABRIC, SEE

SOUTH LAKE TAHOE, CA 96150 (530) 542-0201

NON-WOVEN FILTER FABRIC STAPLED INTO CHANNEL BOTTOM SEE SPECIAL PROVISIONS



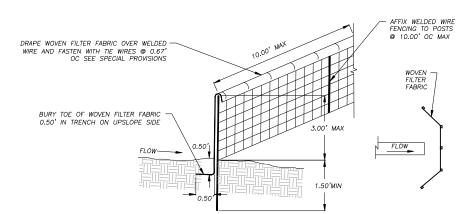
3

CHECKED DATE 12/17/10

REPLACEMENT PROJECT A CONTROL DETAILS - 1

BIJOU CREEK CULVERT R TEMPORARY EROSION DESIGNED/DRAW

SP/PW JD/SB/EL SCALE AS SHOWN JOB NO. 31141040.00 FIGURE NO. ECD-1



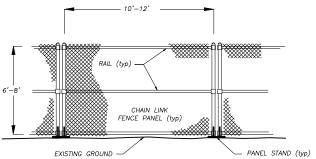
NOTES: 1. CONTRACTOR MAY USE PRE MANUFACTURED SEDIMENT CONTROL FENCE AS APPROVED BY THE COUNTY. SEE SPECIAL PROVISIONS.

2. PLACE FENCING SUCH THAT STORM RUNOFF CANNOT PASS AROUND OR UNDER FENCE

TYPICAL FILTER FENCE TYPE 2 AT DOWNHILL EDGE OF CUT AND FILL AREAS

1.50' MIN-





2. GATES MAY BE PLACED AS NECESSARY BY THE

3. PLACE GRAVEL BAGS ON PANEL STANDS FOR ADDED SUPPORT TO PREVENT BLOW DOWN IN WINDY CONDITIONS.



SEE SPECIAL PROVISIONS FOR SPECIFICATIONS REGARDING FILTER FABRIC, GRAVEL BAGS, RICE FIBER ROLLS, WEIGHTED COIR LOGS, AND FENCE POSTS.

AT DRIPLINE

DETAIL SHOWN IS FOR TREE PROTECTION FENCE, MATERIAL AND SPACING SHOWN ALSO APPLY TO CONSTRUCTION LIMIT FENCE.

CLF & TREE PROTECTION FENCE SHALL BE 48" HIGH MINIMUM. FOR TREES WITH DRIPUISES THAT OVERTHANG THE CONSTRUCTION AREAS, THE LOCATION OF THE TREE PROTECTION FENCE SHALL BE

DETERMINED IN THE FIELD BY THE ENGINEER AND/OR TRPA AT PREGRADE MEETING.

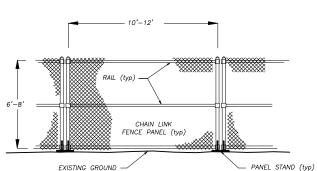
TYPICAL TREE PROTECTION AND

CONSTRUCTION LIMIT FENCE (CLF)

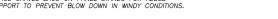
SPACING INTERVALS FOR TYPE 1 FILTER FENCE, AND C&G SEDIMENT CONTROL SHALL BE AT 50' OC FOR SLOPES GREATER THAN 5% AND AT 100' OC FOR SLOPES LESS THAN OR EQUAL TO 5%.

LOCATIONS AND LF OF TYPE 2 FILTER FENCE REQUIRED FOR THE STAGING AREAS ARE NOT SHOWN. THE CONTRACTOR IS TO INCLUDE THESE AREAS IN HIS TEMPORARY EROSION CONTROL PLAN SUBMITTAL.

DIMENSION LIMITS OF FILTER FENCE AND CONSTRUCTION LIMIT FENCE DOES NOT INCLUDE MINIMUM LIMITS FOR TREE PROTECTION. TREE PROTECTION FENCING TO BE PER DETAIL THIS SHEET AND/OR AS DETERMINED IN THE FIELD.



NOTES: 1. INSTALL FENCE PANELS IN A LINEAR ALIGNMENT AS INDICATED ON THE PLANS.





* CALL BEFORE YOU DIG * IGROUND SERVICE ALERT (US) 1-800-227-2800

90% DRAFT **NOT FOR** CONSTRUCTION



SOUTH LAKE TAHOE, CA 96150 (530) 542-0201



BIJOU CREEK CULVERT REPLACEMENT PROJECT TEMPORARY EROSION CONTROL DETAILS - 2

DESIGNED/DRAWN SP/PW JD/SB/EL CHECKED DATE 12/17/10 SCALE

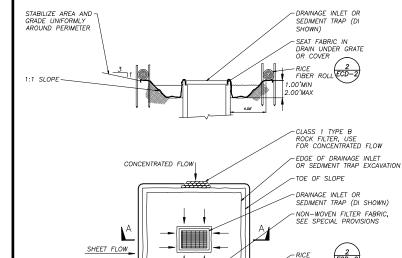
AS SHOWN JOB NO. 31141040.00

FIGURE NO. ECD-2

0.50' CLASS 1 TYPE A PERMEABLE MATERIAL CONCRETE WASH (2) RICE FIBER ROLL NON-WOVEN FILTER FABRIC, SEE SPECIAL PROVISIONS SEE SPECIAL PROVISIONS

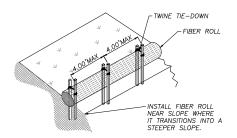
NOTE: CONCRETE WASH SHALL BE SIZED FOR WASHING ALL CONCRETE EQUIPMENT W/O OVER TOPPING BASIN

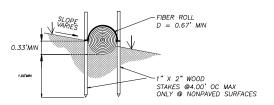
CONCRETE WASH BASIN



- NOTES: 1. FOR USE IN CLEARED AND GRUBBED AND IN GRADED AREAS.
 - 2. SHAPE BASIN SO THAT LONGEST INFLOW AREA FACES LONGEST LENGTH OF TRAP
 - 3. FOR CONCENTRATED FLOWS, SHAPE BASIN IN 2:1 RATIO VERSUS 1:1 WITH LENGTH ORIENTED TOWARDS DIRECTION OF FLOW
 - 4. FOR ST INSTALLATION PROVIDE CUT OUT IN FABRIC FOR WINDOW DRAIN AND CLAMP IN PLACE.

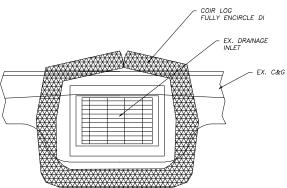
TYPICAL DRAINAGE INLET PROTECTION - TYPE 1





NOTE: 1. INSTALL FIBER ROLL ALONG LEVEL CONTOUR.



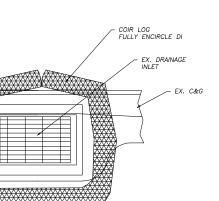


NOTES: 1. INTENDED FOR SHORT-TERM USE ONLY.

- 2. USE WEIGHTED COIR LOGS OR WEIGHT DOWN WITH GRAVEL BAGS.
- 3. ALLOW FOR PROPER MAINTENANCE AND CLEANUP.
- 4. BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED.

TYPICAL DRAINAGE INLET PROTECTION - TYPE 2

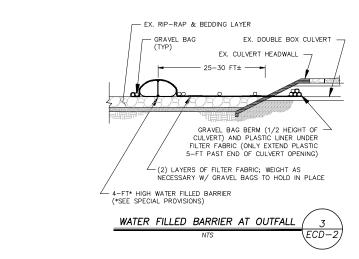


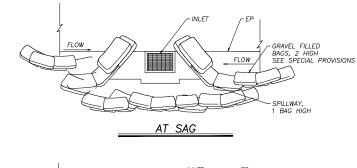


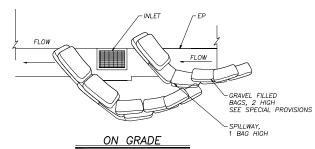
NOTES: 1. INTENDED FOR SHORT-TERM USE ONLY.

- 2. USE TO INHIBIT NON-STORMWATER SUCH AS DUST CONTROL WATERING FLOW.
- 4. BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED.

TYPICAL DRAINAGE INLET PROTECTION - TYPE 3



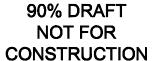




- 3. ALLOW FOR PROPER MAINTENANCE AND CLEANUP.

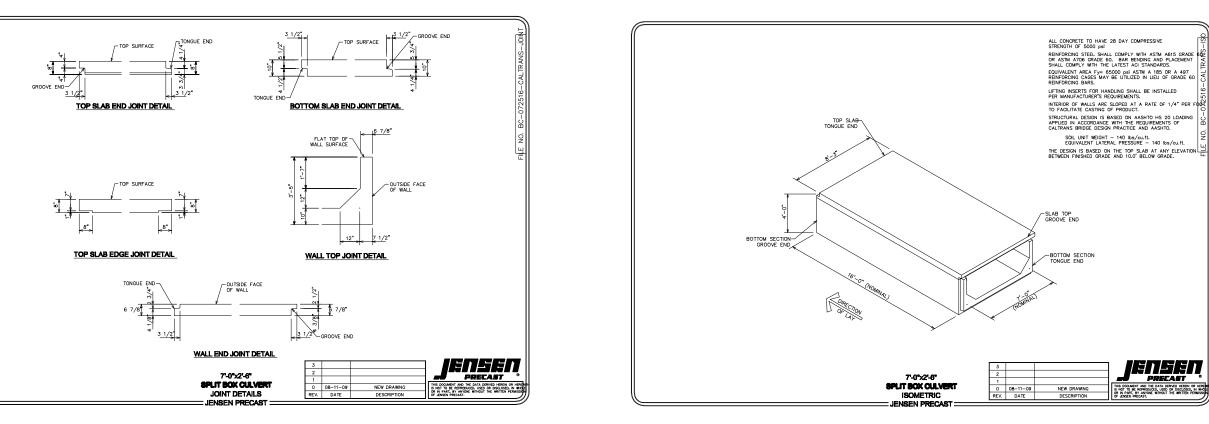


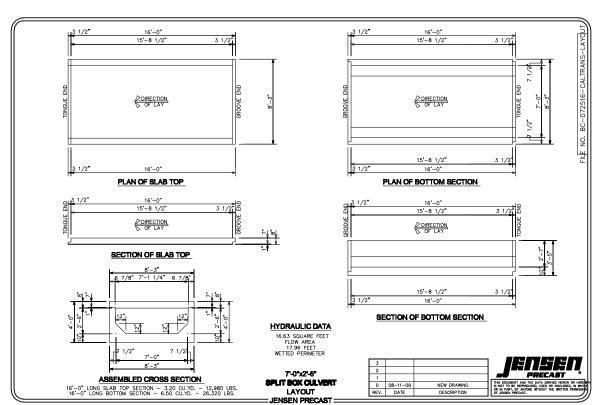
* CALL BEFORE YOU DIG * RGROUND SERVICE ALERT (USA) 1-800-227-2800

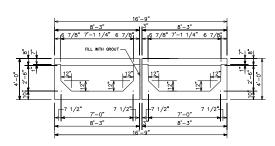




1048 SKI RUN BLVD. SOUTH LAKE TAHOE, CA 96150 (530) 542-0201







ASSEMBLED DOUBLE BARREL CROSS SECTION

NOTES:

1) THE DETAILS PROVIDED ON THIS SHEET FROM JENSEN PRECAST ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL PROVIDE ALL SHOP DRAWINGS AND SUBMITTALS AS REQUIRED PER THE

2) STRUCTURAL DESIGN SHALL BE BASED ON HS-20 TRAFFIC LOADING APPLIED IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO AND CALTRANS BRIDGE DESIGN PRACTICE.

BIJOU CREEK CULVERT REPLACEMENT PROJECT DETAIL SHEET

DESIGNED/DRAWN SP/PW JD/SB/EL CHECKED DATE 12/17/10 SCALE AS SHOWN JOB NO. 31141040.00 FIGURE NO.

D-1

90% DRAFT Cardno CAUTION! ALL EXISTING UTILITIES SHOWN ARE * CALL BEFORE YOU DIG * **NOT FOR** APPROXIMATE AND NEED TO BE POTHOLED PRIOR 1048 SKI RUN BLVD. RGROUND SERVICE ALERT (USA 1-800-227-2600 SOUTH LAKE TAHOE, CA 96150 (530) 542-0201 TO CONSTRUCTION. CONSTRUCTION 1'-0" TOP OF WALL= EX. GRADE= 6231.1 #4 BARS @ 18" 7.0'x2.5' RCB 7.0'x2.5' RCB #5 BARS @ 18"-DOUBLE #5 BARS ~ AROUND PERIMETER OF OPENINGS INSTALL DRAIN HOLES IE OUT= 6227.40 @ 15' O.C., 1' ABOVE FINISHED GRADE #5 BARS @ 18" TOP OF FOOTING= 1'-2" 2'-10' #4 BARS @ 18" #4 BARS @ 18" SECTION VIEW NOTES:
1) PORTLAND CEMENT CONCRETE SHALL CONTAIN NOT LESS THAN 658 POUNDS OF CEMENT PER CUBIC YARD. 7.0'x2.5' RCB 7.0'x2.5' RCB #5 BARS @ 18"-2) ALL REINFORCEMENT SHALL HAVE A CLEAR COVERAGE OF NO LESS THAN 2—INCHES, MEASURED FROM THE FINISHED SURFACE OF THE CONCRETE TO THE OUTSIDE OF THE REINFORCEMENT. 3) SEE THE SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS FOR ADDITIONAL INFORMATION. BIJOU CREEK CULVERT REPLACEMENT PROJECT DETAIL SHEET 1'-0" 4) SEE SHEET C-3 FOR THE BOX CULVERT HEADWALL OUTLET STRUCTURE. PLAN VIEW 7'X2.5' DOUBLE BOX CULVERT HEADWALL (INLET ONLY) TAHOE, CAL -1/4" Ø EYE BOLTS IN 3/8" Ø DRILLED HOLES, WASHER-−3/8" Ø HOLE WASHER & NUT. PEEN ENDS OF BOLTS (TYP) -1/4" Ø WRE STRAND CABLE (TYP) 1/4" Ø BOLT - PEEN END @ JAW END (TYP) POSTS (NPS 2" STD STEEL PIPE, TYP) (4"x5"x9") OR (5"0x9") POST POCKET, FILL WITH MORTAR OR CAST WITHIN WALL — CENTERED 5/16" Ø TURNBUCKLE WITH 4-1/2" ADJUSTMENT (TYP) POST CAP TO BE A DRIVEN FIT (TYP) STD STEEL PIPE) -(2) 1/4" ø CABLE CLAMPS (TYP) BRACE (NPS 1-1/4 ALTERNATIVE DEAD END ANCHORAGE 5/8" Ø DRILLED HOLES (TYP) METAL POST-CLAMP (TYP) TOP OF WALL -CRIMPED SLEEVE CLAMP -1/4" ø GALV. CABLE POST POCKET -POST POCKET (TYP) ? * FOR INLET HEADWALL ONLY SEE CONNECTION DETAIL ON SHEET C-3 FOR OUTLET HEADWALL DESIGNED/DRAWN SP/PW JD/SB/EL CHECKED NOTES:

1) CABLE SHALL NOT BE SPLICED BETWEEN TURNBUCKLES OR END POSTS.

2) PROVIDE THIMBLES AT ALL CABLE LOOPS.

2) ALL POSTS, CABLE, AND HARDWARE TO BE GALVANIZED.

3) THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

4) ALTERNATIVE DETAILS MAY BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER.

5) ALL EXPOSED SURFACES SHALL BE COLORED TO CLOSELY MATCH NATIVE BEACH SAND WITH EPOXY—TYPE POWDER FINISH. PRIOR TO PAINTING, CONTRACTOR SHALL SUBMIT A COLOR SAMPLE TO ENGINEER FOR APPROVAL. GALVANIZED FINISHES ARE PROHIBITED. ALTERNATIVE CABLE CONNECTION DATE 10'-0" MAX 10'-0" MAX 12/17/10 TYP END SPAN TYP INTERMEDIATE SPAN TYP INTERMEDIATE SPAN TYP END SPAN SCALE AS SHOWN ELEVATION JOB NO. 31141040.00 FIGURE NO. 7'X2.5' DOUBLE BOX CULVERT HEADWALL BARRIER FENCE D-2

90% DRAFT Cardno **ENTRIX** CAUTION! ALL EXISTING UTILITIES SHOWN ARE * CALL BEFORE YOU DIG * **NOT FOR** APPROXIMATE AND NEED TO BE POTHOLED PRIOR 1048 SKI RUN BLVD. RGROUND SERVICE ALERT (USA 1-800-227-2600 SOUTH LAKE TAHOE, CA 96150 (530) 542-0201 TO CONSTRUCTION. CONSTRUCTION CLASS 1, TYPE B PERMEABLE MATERIAL (68-1.025) 30-IN (MIN THICKNESS) OF CLASS 1/4T ROCK RIP-RAP (72-2.02) TOP OF ROCK SHALL BE 42 IN± (OR 2*D50) FULLY COVER ROCK RIP—RAP WITH NATIVE BEACH SAND TO DISGUISE AND BLEND WITH ADJACENT AREA AT OR BELOW INVER 12-IN CLASS 1/4T ROCK RIP-RAP (HAND SELECT SMALLER ROCKS TO FIT) UNDISTURBED NATIVE (TYP) 6225 COMPACTED BACKFILL CONSTRUCT NOTCH AT END OF APRON 30-IN -50 FT± 60 FT± A-A12-IN (MIN THICKNESS) OF CLASS 1, TYPE B PERMEABLE MATERIAL (68-1.025) -6225⁻ 30-IN (MIN THICKNESS) OF CLASS 1/1 ROCK RIP-RAP (72-2.02) FULLY COVER WITH NATIVE BEACH SAND TO BLEND WITH ADJACENT AREA 24" DIA, CAST IRON DRAINAGE INLET GRATE -24" DIA. CAST 4" OF AC OR MATCH EXISTING (H-20 LOADING) SET 1/4" BELOW GRADE (WHICHEVER IS GREATER) SLOPE RIP-RAP TO MATCH GRADE AND WRAP AROUND ENDS OF HEADWALL - CLASS 2 A.B. COMPACTED TO 95% R.C. (THICKNESS VARIES) * IN AREAS LESS THAN 8-IN, SUBSTITUTE 2-SACK SAND SLURRY CEMENT 7 O 3:1 MAX 30-IN (MIN THICKNESS) OF CLASS ¼T ROCK RIP RAP (72-2.02) FULLY COVER WITH NATIVE BEACH SAND TO BLEND WITH ADJACENT AREA SLOPE RIP-RAP TO MATCH GRADE AND WRAP AROUND ENDS OF HEADWALL PROPOSED BOX -CEMENTITIOUS GROUT, 4" FILLET ALL AROUND CULVERT (TYP.) PENETRATION IN TOP OF BOX CULVERT BY CORE DRILLING UNDISTURBED NATIVE (TYP) $\begin{pmatrix} 1 \\ D-1 \end{pmatrix}$ B-B- FIRST GRADE RING OR FRAME SHALL BE SET/BONDED USING A HIGH STRENGTH, NON-SHRINK, EPOXY BASED ANCHOR GROUTING MATERIAL * SIMPSON STRONG-TIE (EPOXY-TIE ADHESIVE) OR EQUIVALENT, ASTM C-881 CREEK CULVERT REPLACEMENT PROJECT DETAIL SHEET PLAN VIEW PLACE GRADE RINGS AS REQUIRED (3" OR 6")
 * PLACE WATERTIGHT SEALANT BETWEEN JOINTS, EXTRUDABLE GASKET MATERIAL PER ASTM C-990 7'X2.5' DOUBLE BOX CULVERT ROCK DISSIPATER 7'X2.5' DOUBLE BOX CULVERT DRAINAGE INLET - CLASS 2 A.B. COMPACTED TO 95% R.C.
* IN AREAS LESS THAN 8-IN, SUBSTITUTE
2-SACK SAND SLURRY CEMENT
** WHERE APPLICABLE USE NATIVE BEACH
SAND IN BACKSHORE 4" AC OR MATCH EXISTING LAKE TAHOE, CAL (WHICHEVER IS GREATER) EX AC (TYP) -SEE NOTE -24" DIA. STANDARD CSLT MH COVER -24" DIA. CAST — IRON FRAME / 4" OF AC OR MATCH EXISTING (H-20 LOADING) SET 1/4" BELOW GRADE (WHICHEVER IS GREATER) CLASS 2 A.B. COMPACTED TO 95% R.C. (THICKNESS VARIES) * IN AREAS LESS THAN 8-IN, SUBSTITUTE 2-SACK SAND SLURRY CEMENT FILTER FABRIC -3/4" DRAIN ROCK PROPOSED BOX CEMENTITIOUS GROUT, 4" FILLET ALL AROUND BIJOU (CULVERT (TYP.) PENETRATION IN TOP OF BOX CULVERT BY CORE DRILLING __ 0.5-FT -FIRST GRADE RING OR FRAME SHALL BE SET/BONDED USING A HIGH STRENGTH, NON-SHRINK, EPOXY BASED ANCHOR GROUTING MATERIAL * SIMPSON STRONG-TIE (EPOXY-TIE ADHESIVE) OR EQUIVALENT, ASTM C-881 1-FT DESIGNED/DRAW SP/PW JD/SB/EL -PLACE GRADE RINGS AS REQUIRED (3" OR 6")

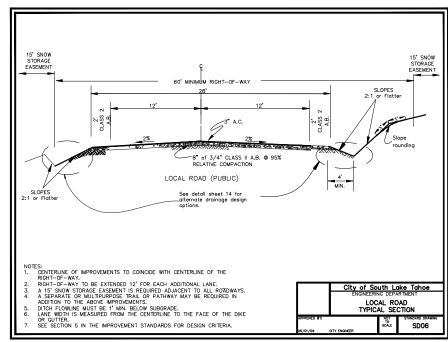
* PLACE WATERTIGHT SEALANT BETWEEN JOINTS,
EXTRUDABLE GASKET MATERIAL PER ASTM C-990 CHECKED - 3" VOID SPACE FILLED WITH GROUT 1 1/2" DRAIN ROCK UNDISTURBED NATIVE GROUND DATE 12/17/10 7'X2.5' DOUBLE BOX CULVERT MANHOLE NOTE: FOLLOWING TRENCH BACKFILL AND FIRST AC PAVING LIFT, GRIND 12-IN BEYOND ORIGINAL TRENCH EXCAVATION TO CREATE A "T" CAP SECTION, FOR PLACEMENT OF FINAL 2-IN AC PAVING LIFT. MAY NOT APPLY TO SOME AREAS WITHIN SCALE AS SHOWN THE PUBLIC ROW, SEE AC PATCH/RESTORATION AREAS AS DELINEATED ON SHEETS C-1 AND C-2. JOB NO. 31141040.00 FIGURE NO. 7'X2.5' DOUBLE BOX CULVERT TRENCH DETAIL **D-3**

* CALL BEFORE YOU DIG * 1-800-227-2800

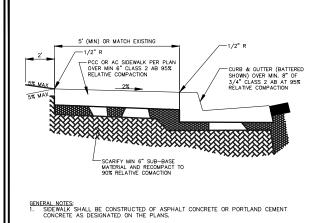
90% DRAFT **NOT FOR** CONSTRUCTION



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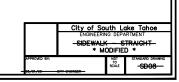
CSLT DETAIL

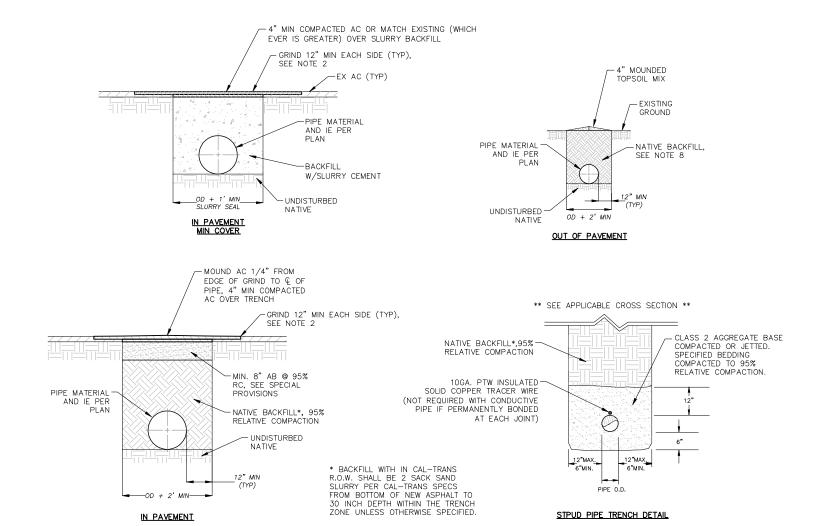


- 2. ALL WORK AND ALL MATERIALS SUPPLIED SHALL CONFORM TO THE STANDARD SPECIFICATIONS LATEST FOLLOW
- 3. SIDEWALK AND CURB RAMPS SHALL BE A MINIMUM OF 4" THICK
- IN ALL AREAS WHERE ROLLED CURB TRANSITIONS TO VERTICAL CURB OR CATCH BASINS, SIDEWALK SHALL BE A MINIMUM OF 4" THICK.
- 5. ALL EXISTING STREET SIGNS SHALL BE RELOCATED AND ALL REQUIRED NEW SIGNS PLACED PER THE STANDARD SPECIFICATIONS.

CONCRETE NOTES:
1. ALL BROOMING SHALL BE PERPENDICULAR TO THE CURB.

- 1/2-INCH PRE-MOLDED JOINT FILLER SHALL BE INSTALLED IN EXPANSION JOINTS AT 18 FOOT INTERVALS.
- 3. CONTROL JOINTS SHALL BE 1.5-INCHES DEEP AND AT 6 FOOT INTERVALS.





NOTES:

1. MINIMUM COVER* FROM CROWN OF PIPE TO FINISH GRADE SHALL BE AS FOLLOWS:

CUL VERTS 18 INCHES

STORM DRAINS 18 INCHES FOR RCP --- 24 INCHES FOR HDPE

*UNLESS OTHERWISE APPROVED. FOR ADDITIONAL INFORMATION SEE CSLT STANDARD DRAWING SD64.

- 2. GRIND PAVEMENT A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE LONGITUDINAL OR TRANSVERSE EXCAVATION AFTER TRENCH BACKFILL AND FIRST LIFT OF HOT MIX AC.
- 3. REPLACE PAVEMENT TO EDGE OF PAVEMENT (EP) IF THE EXCAVATION IS WITHIN 3 FEET OF THE EP.
- 4. IN WET OR ROCKY MATERIAL THE DEPTH OF THE TRENCH BEDDING SHALL BE INCREASED TO THE LARGER OF EITHER 6 IN. OR 1/4 DIA OF PIPE.
- 5. FOR CULVERTS/STORM DRAINS THE MINIMUM DISTANCE BETWEEN THE SIDE OF THE TRENCH AND THE SIDE OF THE PIPE SHALL BE 1/2 OD OR 12". WHICHEVER IS GREATER.
- 6. STORM DRAINS AND CULVERTS INSTALLED WITHIN FILL SHALL BE 95% RELATIVE COMPACTION UP TO A MINIMUM OF 12 INCHES ABOVE THE TOP OF PIPE.
- 7. IN AREAS WITH MINIMUM COVER, BACKFILL ABOVE BEDDING SHALL BE CLASS 2 AGGREGATE BASE UNLESS BACKFILLING WITH CEMENT SLURRY.
- 8. IN AREAS OF NATURAL VEGETATION OR LANDSCAPING, REMOVE TOP 12 INCHES OF MATERIAL, STOCKPILE & REPLACE ON TRENCH IN A MOUND. BACKFILL COMPACTED BETWEEN 80% AND 85% RELATIVE COMPACTION.
- 9 ALL LANDSCAPING CONDUITS WITHIN THE ROADWAY PRISM AND OR TRAFFIC AREAS MUST HAVE MINIMUM OF 30 INCHES COVER
- 10. AC PATCH SHALL BE HOTMIX ASPHALT A MINIMUM COMPACTED THICKNESS OF 4 INCHES AND PLACED IN A MINIMUM OF 2 LIFTS. 11. COLD MIX ASPHALT MAY BE PLACED TEMPORARILLY, BUT MUST BE COMPLETELY REMOVED BEFORE PLACING THE PERMANENT HOT MIX ASPHALT.
- 12. PLACE AGGREGATE BASE (AB) AT THE TOP OF THE EXCAVATION WHERE THE EXCAVATION IS WITHIN 2' OF EP OR IF AB PRESENTLY EXISTS ABOVE THE EXCAVATION. IF THE EXCAVATION IS AT THE BOTTOM OF A ROADSIDE DITCH, BEYOND A ROADSIDE DITCH, OR BEHIND A CURB, THE REQUIREMENT FOR AB CAN BE WAIVED.
- 13. TRANSVERSE EXCAVATION ON ROADWAYS PAVED WITHIN 2 YEARS ARE NOT ALLOWED AND MUST BE BORED. LONGITUDINAL EXCAVATIONS ON ROADWAYS PAVED WITHIN 5 YEARS OR ON COLLECTOR ROADS WITH A HIGH QUALITY RIDING SURFACE REQUIRE A 2" OVERLAY WHICH CONFORMS OR A 2" GRIND AND OVERLAY OF THE TRAVEL LANE.
- 14. STORM DRAIN BACKFILL TO BE STRUCTURAL BACKFILL
- 15. EXCESSIVE TRANSVERSE CUTS MAY REQUIRE A GRIND AND REPAVE OF ENTIRE TRAVEL LANE BETWEEN CUTS.
- 16. NO SAWCUTS WILL BE ALLOWED IN WHEEL PATHS. SAWCUT LINES SHALL BE PLACED AT ROAD CL, WITHIN SHOULDER OR MIDDLE OF TRAVEL LANE, AND OUTSIDE WHEEL PATHS.
- 17. MINIMUM PATCH WIDTH SHALL BE 3' WIDE.
- 18. PATCH WORK SHALL NOT RESULT IN "RIBBON" STRIPS OF PAVEMENT (LESS THAN 3 FEET WIDE). EXISTING PAVEMENT WIDTHS LESS THAN 3 FEET WIDE SHALL BE REMOVED AND PAVED WITH THE PATCH WORK.

TYPICAL TRENCH DETAILS

D-4

CSLT DETAIL

31141040.00 FIGURE NO.

PROJECT

CULVERT REPLACEMENT DETAIL SHEET

CREEK (

BIJOU

DESIGNED/DRAW

SP/PW JD/SB/EL

DATE

12/17/10

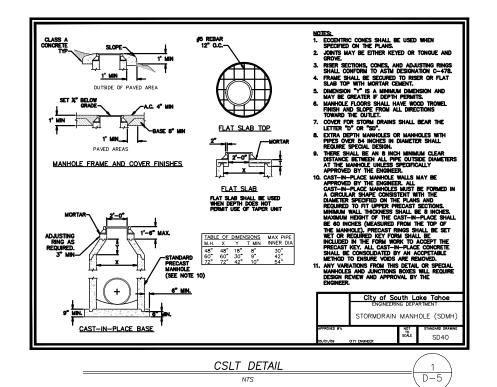
SCALE AS SHOWN

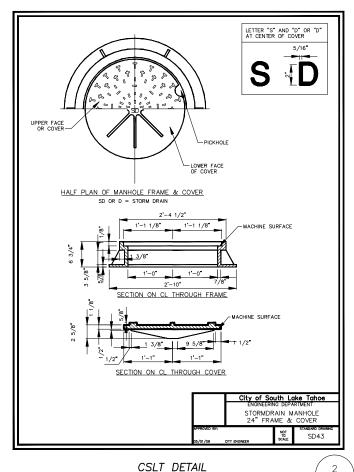
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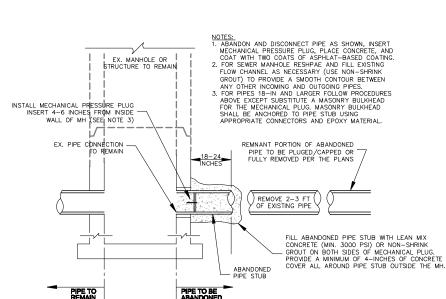
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* CALL BEFORE YOU DIG *
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-227-800







PLUG/CAP EX. SD PIPE TO STRUCTURE PENETRATION

90% DRAFT

NOT FOR

CONSTRUCTION

INSIDE FACE OF MANHOLE
OR STRUCTURE WALL

INTERLOCKED EXPANSION BAND INSIDE
OF "SEAL BOOT" (ACID RESISTANT
STAINLESS STEEL, 300 SERIES)

FILL ANNULAR SPACE WITH
NON-SHRINK HYDRAULIC
CEMENT GROUT AS NEEDED,
TROWEL SMOOTH (TYP)

MAX 1-INCH PROJECTION INTO
MANHOLE, IN NO CASE LESS
THAN FLUSH W/ INSIDE WALL

CENTER PIPE IN CONNECTOR
OPENING, PIPE MUST NOT
REST ON EXPANSION BAND

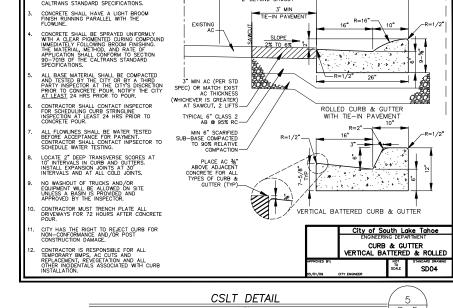
INV ELEVATION AND/OR

SUMP PER PLANS

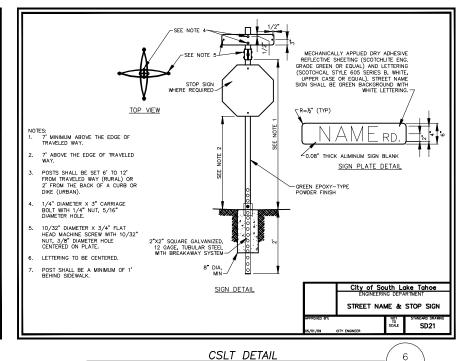
BAND CLAMP (ACID RESISTANT
STAINLESS STEEL, 300 SERIES)

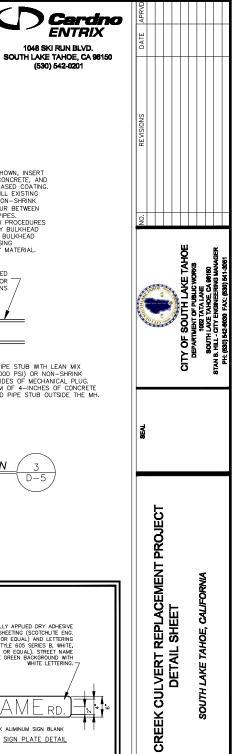
1 CLAMP ON 15" PIPE & LARGER
APPLICABLE, TO ENSURE GOOD SEAL
(NPC INC. OR APPROVED EQUAL)

SD PIPE TO EX. STRUCTURE CONNECTION



DISTANCE VARIES ROW TO CENTERLINE





BIJOU

DESIGNED/DRAW

SP/PW JD/SB/EL

CHECKED

DATE

12/17/10

SCALE

AS SHOWN JOB NO. 31141040.00

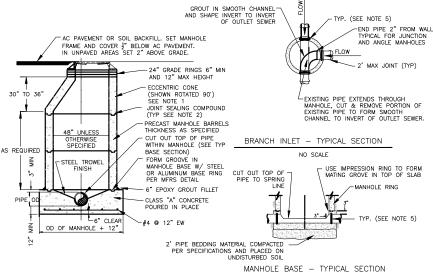
D-5

FIGURE NO.

D-5

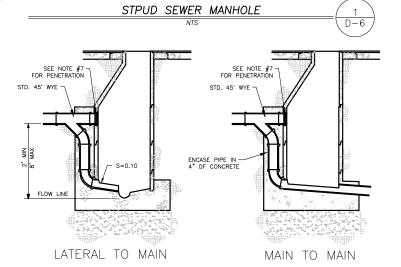
* CALL BEFORE YOU DIG * CONTACT UNDERGROUND SERVICE ALERT (USA) 1-800-227-3800

PRIOR TO ANY CONSTRUCTION HORK INCL JERT TYP. (SEE NOTE 5) END PIPE 2" FROM WALL TYPICAL FOR JUNCTION



NOTES:

- 1) LOCATE MANHOLE COVER ON DOWNSTREAM SIDE OF MANHOLE. 24" MANHOLE FRAME AND COVER TO BE SUPPLIED BY DISTRICT.
- 2) JOINT SEALING COMPOUND SHALL BE: "RAM-NEK" BY K.T. SNYDER COMPANY; OR APPROVED EQUAL.
- 3) FOR SHALLOW MANHOLES, THE CONTRACTOR SHALL SUBSTITUTE A PRE CAST CONCRETE MANHOLE CAP, DESIGNED FOR H-20 TRAFFIC LOADING, IN LIEU OF THE ECCENTRIC CONE. THE 24-INCH OPENING SHALL BE LOCATED IN THE CENTER OF THE MANHOLE CAP. PROVIDE A DESIGN SUBMITIAL, PREPARED AND SEALED BY A QUALIFIED REGISTERED ENGINEER, DEMONSTRATING COMPLIANCE WITH REQUIRED LOADING CRITERIA.
- 4) FOR MANHOLE PENETRATIONS MAKE TRANSITION FROM DIFFERING PIPE MATERIALS AT THE CENTER OF THE MANHOLE, PROVIDING A 12" LONG "U" SHAPED OPEN CHANNEL TRANSITION SECTION OF HAND FORMED CONCRETE TO PROVIDE A UNIFORM TRANSITION BETWEEN THE TWO "PIPE MATERIALS".
- 5) ALL MANHOLE PIPE PENETRATIONS SHALL BE PROVIDED WITH A FLANGE OR OTHER SUBSTANTIAL DEVICE WELDED ONTO OR CAST INTEGRALLY WITH THE PIPE. SUCH DEVICE SHALL BE SUBJECT TO THE ENGINEER'S REVIEW AND SHALL BE ADEQUATE TO RESTRAIN LATERAL MOVEMENT DUE TO TEMPERATURE DIFFERENTIALS IN THE PIPE. FOR MANHOLES WITH PVV PIPE CONNECTIONS, FOR WATERTIGHT SEAL TO BE ACHIEVED THE CONTRACTOR SHALL UTILIZE A FLEXIBLE ELASTOMERIC GASKET MATERIAL CAPABLE OF ACCOMMODATING THE DIFFERENTIAL HERMAL EXPANSION AND CONTRACTIONS DEFWEEN THE CONCRETE AND PVC PIPE.
- 6) BASE OF MANHOLE SHOULD BE SMOOTH AND CONTOURED TO SLOPE TOWARDS PIPE



NOTES:

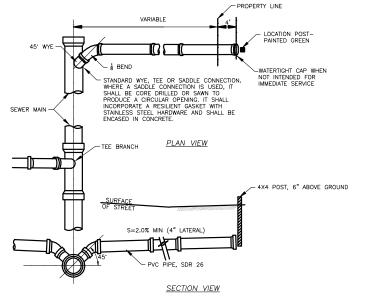
- DROP MANHOLES ARE TO BE USED ON ALL SANITARY SEWERS WITH MORE THAN TWO FEET VERTICAL DROP AT MANHOLE (DROP SHALL NOT EXCEED EIGHT FEET AT ANY MANHOLE).
- 2) MAINS SHALL BE SLOPED TO FALL AT LEAST 0.1 FEET ACROSS MANHOLE SECTIONS.
- ALL OTHER DIMENSIONS, NOTES AND REQUIREMENTS AS SHOWN ON STANDARD MANHOLE DETAIL SHALL APPLY TO DROP MANHOLES.
- 4) DIMENSIONS NOT SHOWN ARE GIVEN ON STANDARD MANHOLE DETAIL.
- 5) ALL JOINTS AND CONNECTIONS TO NEW OR EXISTING MANHOLES SHALL BE WATERTIGHT.
- 6) ALL JOINTS SHALL BE SEALED WITH: "RAM-NEK" BY K.T. SNYDER COMPANY OR APPROVED EQUAL.
- PENETRATIONS AT WYE SHALL HAVE LINKSEAL OR APPROVED EQUAL; PENETRATION SHALL BE TROWEL SMOOTH INSIDE AND OUT WITH NON-SHRINK GROUT OVER LINKSEAL.



90% DRAFT NOT FOR CONSTRUCTION



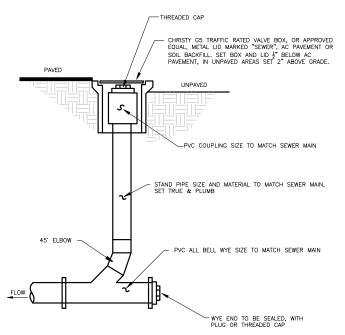
1048 SKI RUN BLVD. SOUTH LAKE TAHOE, CA 96150 (530) 542-0201



NOTES:

- 1) ALL JOINTS AND CONNECTIONS SHALL BE WATERTIGHT.
- ALL BUILDING SEWERS SHALL HAVE A MINIMUM GROUND COVER OF THREE FEET (3') OVER THE TOP OF PIPE.
- 3) ALL LATERALS 6" AND LARGER SHALL BE CONNECTED TO SEWER MAIN USING A STANDARD MANHOLE.

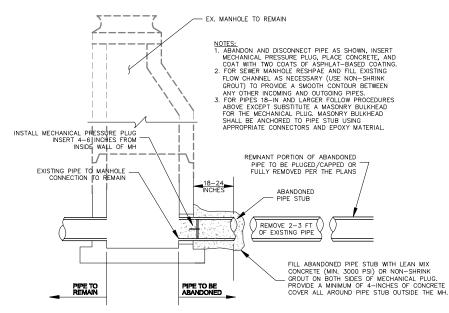




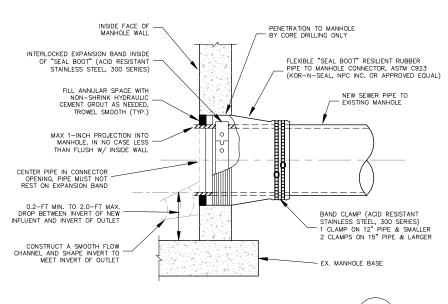
STPUD SEWER MAIN FLUSH INLET

NTS

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D-6







PIPE TO EX. MANHOLE CONNECTION

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SEAL

CITY OF SOUTH LAKE TAHOE

DEPARTMENT OF PUBLIC WORSG

SOUTH LAKE THOSE CA BRIDE

SOUTH LAKE THOS

5

CULVERT REPLACEMENT PROJECT DETAIL SHEET

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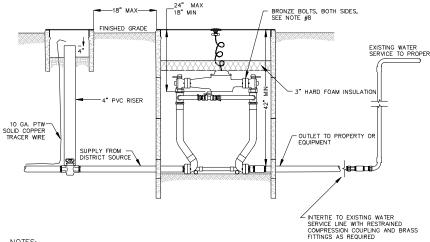
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DESIGNED/DRAWN
SP/PW JD/SB/EL
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DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00

D-6

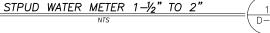
FIGURE NO.

* CALL BEFORE YOU DIG * 1-800-227-2600

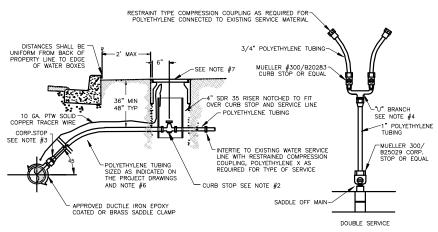


NOTES:

- 1) METERS USED FOR DOMESTIC WATER SERVICE SHALL BE SENSUS SR TR/PL REGISTERING IN 100 CF OR APPROVED EQUAL. METERS USED FOR FIRE LINES SHALL BE SENSUS W-160 DRS TURBO-METER REGISTERING IN 100 CF.
 ONE AND ONE HALF INCH (1 1/2") METERS SHALL BE INSTALLED USING FORD RESETTER MODEL VBB46-HB. FOR TWO INCH (2") METERS FORD MODEL VBB47-HB OR APPROVED EQUAL SHALL BE USED.
- 2) METER SHALL BE INSTALLED AT A DEPTH OF NOT LESS THAN EIGHTEEN INCHES (18") AND NOT MORE THAN TWENTY FOUR INCHES (24") MEASURED FROM THE TOP OF THE METER BOX TO THE BOTTOM OF THE METER (SEE DETAIL).
- 3) REQUIRED INSULATED COUPLER SHALL BE LOCATED IMMEDIATELY DOWNSTREAM OF RESETTERS OR IF RESETTERS ARE NOT USED, IMMEDIATELY DOWNSTREAM OF METER AND BYPASS.
- 4) METER BOX IN NON-TRAFFIC AREAS SHALL BE "CHRISTY" MODEL B36 WITH METAL LID OR APPROVED EQUIVALENT INSTALLED NO LESS THAN TWO INCHES (2") ABOVE FINISHED GRADE. BOXES LOCATED IN OR NEAR TRAFFIC AREAS SHALL BE H20 LOAD RATED INSTALLED A HALF INCH (1/2") BELOW FINISHED GRADE. PROVIDE THREE INCHES (3") RIGID INSULATION ABOVE METER IN BOX.
- 5) CONTRACTOR SHALL PROVIDE TWO INCH (2") HOLF CENTERED IN METER BOX LID AND INSTALL TR/PL READER MOUNT.
- 6) USE OF TWO OR MORE RESETTERS IN A STACKED ARRANGEMENT REQUIRES THE USE OF A RIGID METAL SUPPORT DRIVEN EIGHTEEN INCHES (18") INTO THE SOIL BELOW THE METER. SUPPORT MUST BE TIED WITH PERMANENT TIES AT THREE EVENLY SPACED LOCATIONS TO THE RESETTER OR PIPING.
- 7) METER BOX SHALL BE WITHIN EIGHTEEN INCHES (18") OF DISTRICT SERVICE VALVE BOX.
- 8) BRONZE BOLTS AT METER FLANGES ONLY.







NOTES:

- 1) ALL SERVICE CONNECTIONS SHALL CONFORM TO AWWA C-800-84 AND BE INSTALLED FROM THE NEW MAIN TO EACH EXISTING SERVICE LINE.
- 2) NEW CURB-STOP SHALL BE SIZED AS INDICATED ON PLANS AND BE MUELLER #300/B20283 OR APPROVED EQUAL.
- 3) CORPORATION STOP SHALL BE SIZED AS INDICATED ON PLANS AND BE MUELLER #300/B25029 OR APPROVED EQUAL FOR 3"- 1". MUELLER #300/25028 OR APPROVED EQUAL FOR 13"-2"
- 4) SINGLE HOUSE SERVICE SHALL BE 3" POLYETHYLENE WITH 3" FITTINGS. DOUBLE HOUSE SERVICE SHALL BE 1" POLYETHYLENE TO FORD #U68-43 SPACING "U" BRANCH OR EQUAL WITH TWO 3" CURB-STOPS AND SERVICE CONNECTIONS.
- 5) ALL WATER SERVICES SHALL HAVE A HAND-TAMPED SAND BEDDING 9" ABOVE AND BENEATH THE TUBING AND SHALL HAVE 6" MINIMUM CLEARANCE ON EACH SIDE.
- 6) ALL WATER SERVICE SHALL BE POLYETHYLENE 200 PSI CLASS IRON PIPE SIZE FOR 3™-1™. COPPER TUBE SIZE FOR 1½™-2™. PIPE STIFFENER INSERTS TO BE USED AT ALL CONNECTIONS. 7) WATER VALVE BOX SHALL BE CHRISTY G5 FOR SINGLE SERVICE, AND CHRISTY B9 FOR DOUBLE SERVICE OR APPROVED EQUAL
- WITH A METAL LID MARKED "WATER".
- 8) ALL CORP-STOPS, CURB-STOPS AND POLYETHYLENE SERVICE LINES SHALL BE DISINFECTED AND HYDROSTATIC TESTED ALONG WITH THE NEW MAIN PRIOR TO BEING PLACED INTO SERVICE.
- 9) ALL TUBING CONNECTIONS SHALL BE THE COMPRESSION TYPE; MUELLER OR APPROVED EQUAL.
- 10) 10 GA. PTW SOLID COPPER TRACER WIRE SHALL BE INSTALLED FROM THE NEW MAIN ALONG NEW SERVICE LINE TO THE VALVE BOX REGARDLESS OF NEW WATER MAIN TYPE. ON CONDUCTIVE TYPE PIPELINES THE TRACER WIRE SHALL BE CLAMPED USING APPROVED STANLESS STEEL CLAMPE.



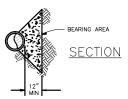
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1048 SKI RUN BLVD. SOUTH LAKE TAHOE, CA 96150 (530) 542-0201

THRUST BLOCK AREA REQUIRED - SQUARE FEET

TYPE FITTII	OF NG	90. ELBOM	45. ELBOM	22.5 ⁻ ELBOW	11.25' ELBOW	TEE BRANCH	TEE W/ PLUG	CROSS W/ PLUG	CROSS W/ PLUGS
TYPICAL						13 P			
	6"	4	4	2	2	4	4	4	4
	8"	10	6	3	3	10	10	10	10
PIPE	10"	12	8	4	4	15	15	15	15
1	12"	16	10	6	6	20	20	20	20
90 1	14"	21	12	6	6	22	21	22	21
SIZE	16"	27	15	8	8	22	27	27	27
	18"	45	25	13	13	32	45	45	45
	24"	65	35	18	18	45	65	65	65

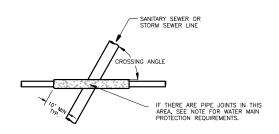


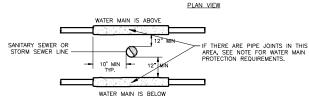
NOTES:

- 1) JOINTS, FLANGE BOLTS AND FACE OF PLUGS TO BE KEPT CLEAR OF CONCRETE.
- 2) BLOCKS MUST BE POURED AGAINST UNDISTURBED SOIL.
- 3) THRUST BLOCKS TO BE CONSTRUCTED OF CLASS 423-C-2500 OR BETTER P.C.C.
- 4) THRUST BLOCKS AREA IS BASED ON TEST PRESSURE OF 150 PSI AND A HORIZONTAL SOIL BEARING STRENGTH OF 1500 PSI.
- 5) NUTS AND BOLTS ON ALL MJ FITTINGS SHALL BE PAINTED WITH TWO COATS OF KOPPERS 505, TNEMEC 46-450', AMERON OR EQUAL, 15 MILS EACH COAT.









PROFILE

NOTE:

WHERE THE WATER MAIN IS BELOW THE SEWER LINE, WHERE THE WATER MAIN IS LESS THAN 18-INCHES CLEAR ABOVE THE SEWER LINE OR WHERE A 10-FOOT HORZONTAL SEPARATION CANNOT BE MAINTAINED, THE AREA OF CROSSING MUST BE CONSTRUCTED IN SUCH A MANNER THAT:

- A) THE WATER MAIN IS CONSTRUCTED SUCH THAT THERE ARE NO PIPE JOINTS FOR A DISTANCE OF AT LEAST 10-FEET ON EACH SIDE OF THE POINT OF CROSSING, OR;
- C) THE WATER MAIN OR SEWER MAIN IS INSTALLED IN A PIPE SLEEVE THAT EXTENDS, WITHOUT JOINTS, AT LEAST 10—FEET ON EACH SIDE OF THE POINT OF CROSSING.

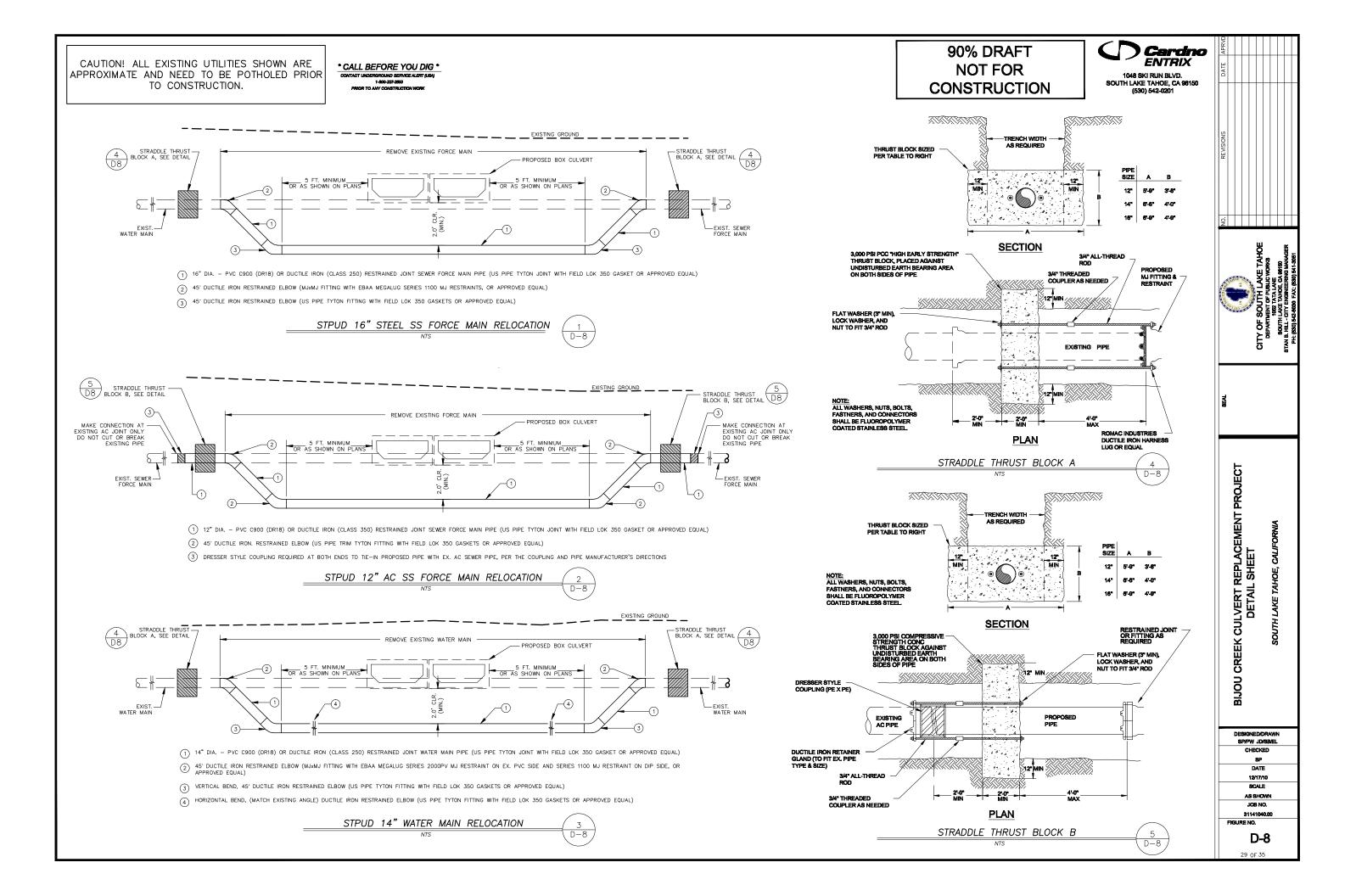
STPUD WATER MAIN PROTECTION AT SEWER CROSSING

SP/PW JD/SB/EL CHECKED DATE 12/17/10 SCALE AS SHOWN JOB NO. 31141040.00 FIGURE NO. **D-7**

CULVERT REPLACEMENT DETAIL SHEET

CREEK

BIJOU



* CALL BEFORE YOU DIG * IGROUND SERVICE ALERT (US) 1-800-227-2800

90% DRAFT **NOT FOR** CONSTRUCTION



1048 SKI RUN BLVD. SOUTH LAKE TAHOE, CA 96150 (530) 542-0201



LAKE TAHOE, CALI

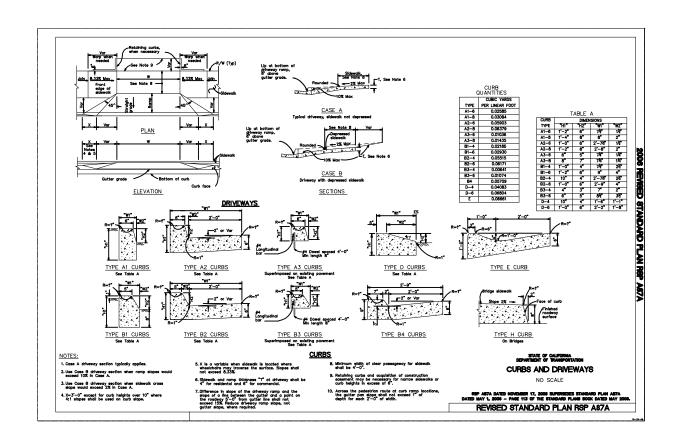
BIJOU CREEK CULVERT REPLACEMENT PROJECT DETAIL SHEET

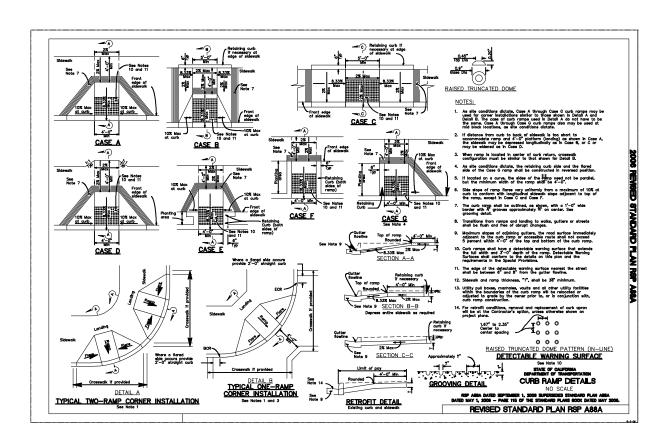
DESIGNED/DRAWN SP/PW JD/SB/EL CHECKED

12/17/10 SCALE AS SHOWN JOB NO.

31141040.00

FIGURE NO. D-9





CALTRANS CURBS AND DRIVEWAYS

D-9

CALTRANS CURB RAMP DETAILS

1) CALTRANS DETAILS (2006, US CUSTOMARY UNITS) AS PROVIDED ARE FOR REFERENCE ONLY.

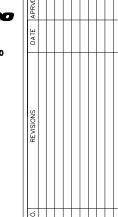
2) CONTRACTOR IS RESPONSIBLE TO OBTAIN AND USE CURRENT VERSION AS PUBLISHED IN THE CALTRANS STANDARD PLANS BOOK.

* CALL BEFORE YOU DIG *
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-227-2800
PRIOR TO ANY CONSTRUCTION WORK

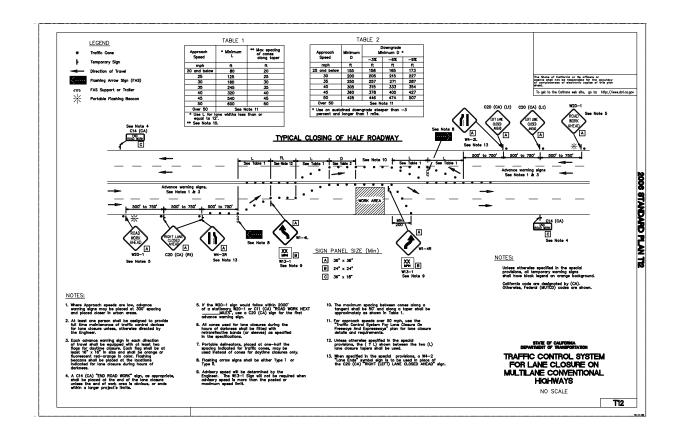
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TYPICAL LANE CLOSURE The State of California or its officers or openis shall not be responsible for the occuracy or completeness of electronic copies of this plan To get to the Caltrans web site, go to: http://www.do NOTES: Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown. TABLE LEGEND ** Max spacing of cones along taper Traffic Cone • Minimum L Approach Speed Floshing Arrow Sign (FAS) Portable Flashing Beacon SIGN PANEL SIZE (Min) A 36" × 36" B 36" × 18" Portable delineators, placed at one—half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only. Where approach speeds are low, advance warning signs may be placed at 300' spacing and placed closer in urban areas. 7. Flashing arrow sign shall be either Type I or Type II. 3. The maximum spacing between cones along a tangent shall be 50° and along a taper shall be approximately as shown in Table 1. STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS All cones used for lone closures during the houre of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.



CALTRANS TEMPORARY TRAFFIC CONTROL SYSTEM

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NO SCALE

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CALTRANS TEMPORARY TRAFFIC CONTROL SYSTEM

UNIK

2 D=10

OTF:

- 1) CALTRANS DETAILS (2006, US CUSTOMARY UNITS) AS PROVIDED ARE FOR REFERENCE ONLY.
- 2) CONTRACTOR IS RESPONSIBLE TO OBTAIN AND USE CURRENT VERSION AS PUBLISHED IN THE CALTRANS STANDARD PLANS BOOK.

DESIGNED/DRAWN SPPW JD/SB/EL CHECKED SP DATE 12/17/10 SCALE AS SHOWN JOB NO.

BIJOU CREEK CULVERT REPLACEMENT PROJECT DETAIL SHEET

LAKE TAHOE, CALII

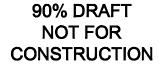
FIGURE NO.

D-10

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31141040.00

* CALL BEFORE YOU DIG * RGROUND SERVICE ALERT (USA 1-800-227-2800





1048 SKI RUN BLVD. SOUTH LAKE TAHOE, CA 96150 (530) 542-0201

	APRV					
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BIJOU CREEK CULVERT REPLACEMENT PROJECT DETAIL SHEET

DESIGNED/DRAWN 8P/PW JD/8B/EL
CHECKED
SP SP
DATE
12/17/10
SCALE
AS SHOWN
JOB NO.
31141040.00
FIGURE NO.

D-11

SIGN PANEL SIZE (Min) TYPICAL RAMP CLOSURES D 48" x 48" - Speed of 50 mph or more 36" x 36" - Speed less than 50 mph The State of California or its officers or agents shall not be responsible for the occuracy or completeness of electronic copies of this plan ENTRANCE RAMP WITHOUT TURNING POCKETS TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE NO SCALE ENTRANCE RAMP WITH TURNING POCKETS

CALTRANS TEMPORARY TRAFFIC CONTROL SYSTEM

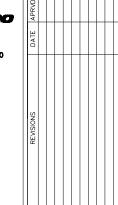
1) CALTRANS DETAILS (2006, US CUSTOMARY UNITS) AS PROVIDED ARE FOR REFERENCE ONLY.
2) CONTRACTOR IS RESPONSIBLE TO OBTAIN AND USE CURRENT VERSION AS PUBLISHED IN THE CALTRANS STANDARD PLANS BOOK.

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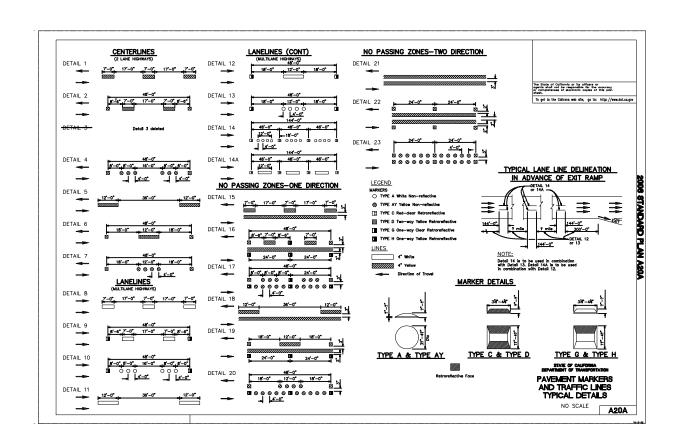
LAKE TAHOE, CALI

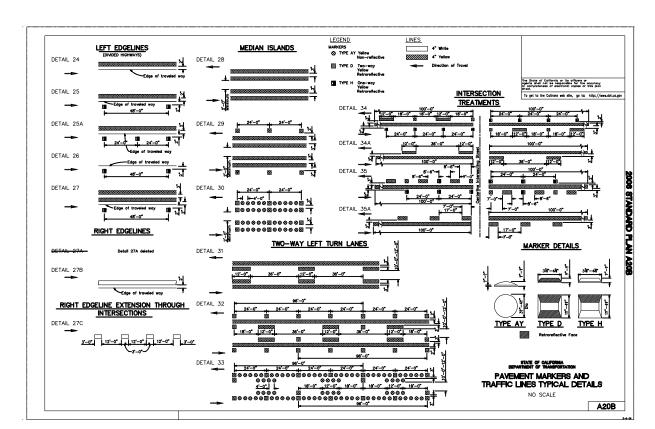
BIJOU CREEK CULVERT REPLACEMENT PROJECT DETAIL SHEET

DESIGNED/DRAWN SP/PW JD/SB/EL CHECKED 12/17/10 SCALE

AS SHOWN JOB NO. 31141040.00 FIGURE NO.

D-12





CALTRANS PAVEMENT MARKERS AND TRAFFIC LINES

CALTRANS PAVEMENT MARKERS AND TRAFFIC LINES

1) CALTRANS DETAILS (2006, US CUSTOMARY UNITS) AS PROVIDED ARE FOR REFERENCE ONLY.

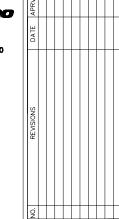
2) CONTRACTOR IS RESPONSIBLE TO OBTAIN AND USE CURRENT VERSION AS PUBLISHED IN THE CALTRANS STANDARD PLANS BOOK.

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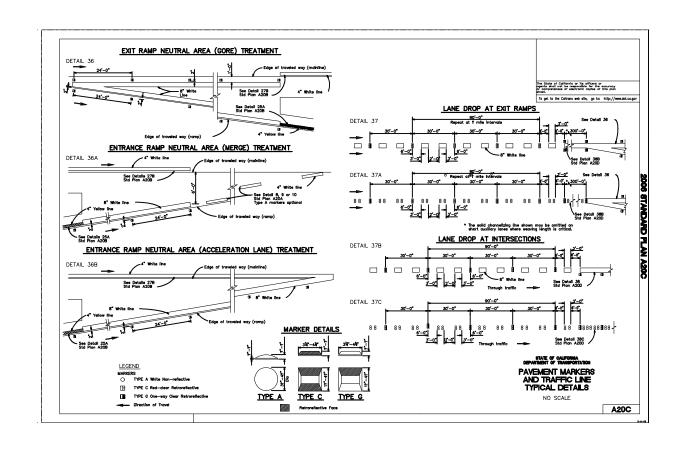
BIJOU CREEK CULVERT REPLACEMENT PROJECT DETAIL SHEET

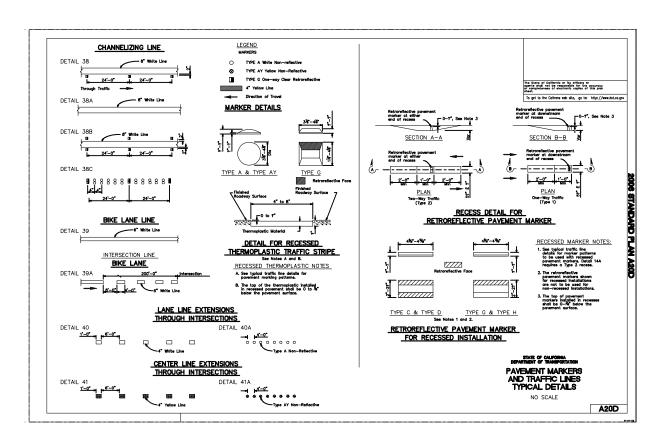
LAKE TAHOE, CALIF

DESIGNED/DRAWN SP/PW JD/SB/EL

CHECKED 12/17/10 SCALE AS SHOWN JOB NO. 31141040.00

FIGURE NO. **D-13**





CALTRANS PAVEMENT MARKERS AND TRAFFIC LINE

CALTRANS PAVEMENT MARKERS AND TRAFFIC LINES

1) CALTRANS DETAILS (2006, US CUSTOMARY UNITS) AS PROVIDED ARE FOR REFERENCE ONLY.

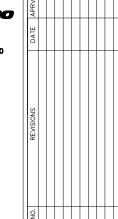
2) CONTRACTOR IS RESPONSIBLE TO OBTAIN AND USE CURRENT VERSION AS PUBLISHED IN THE CALTRANS STANDARD PLANS BOOK.

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SOUTH LAKE TAHOE, CA 98150 (530) 542-0201



BIJOU CREEK CULVERT REPLACEMENT PROJECT DETAIL SHEET LAKE TAHOE, CALII

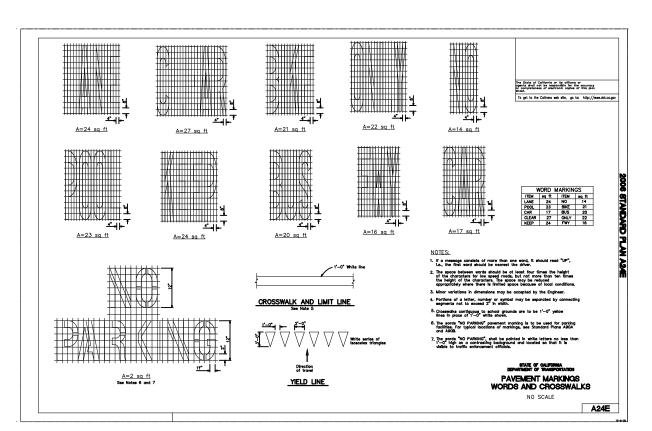
DESIGNED/DRAWN SP/PW JD/SB/EL CHECKED 12/17/10 SCALE AS SHOWN

D-14

JOB NO. 31141040.00 FIGURE NO.

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To get to the California web site, go to: http://www.completeness.com 6'-0" 1'-0" GRID _____ 1'-0" 1'-0 1'-0" GRID - 1'-0" A=45 sq ft
TYPE II (L) ARROW
(FOR TYPE II (R) USE MIRROR IMAGE) A=42 sq ft (L) ARROW (FOR TYPE III (R) USE MIRROR IMAGE) 77PE | (B) ARROW TYPE II (B) ARROW STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION PAVEMENT MARKINGS ARROWS NO SCALE



PAVEMENT MARKINGS WORDS AND CROSSWALKS

PAVEMENT MARKINGS ARROWS

D-14

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